



September 2021

# SIMATIC Ident Configuration Guide

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## Important notes:

All selection possibilities of this SIMATIC Ident Configuration Guide can also be found in the **TIA Selection Tool**.

This tool is available at:

<http://www.siemens.com/tst>

Other functional highlights of the selection tool:

- Create order lists
- Get price information by application to the mall
- Select other automation components (control devices, IO-Systems, industrial communication)
- Network view of all components
- Retrieve and compare technical data
- ... and much more

All current wireless approvals can be found on the Internet at:


































<http://www.siemens.com/rfid-approvals>






















The newest version of this configuration guide is published at:

<http://support.industry.siemens.com/cs/ww/en/view/67384964>

## Each SIMATIC RF Family has characteristics that orients it to a particular range of applications:















- The first step is to understand the application by asking the right questions. Out of this process, the best-suited SIMATIC RF family can be determined
- A reader and tag combination within the specific family can be selected using the SIMATIC RF family matrix pages
- Within the chosen family, a network interface to the control system can be selected using the system interfaces pages

|  |   |  |  |   |
|--|---|--|--|---|
| <b>Technology</b>  | <b>HF</b> → <b>UHF</b>  |  |  |   |
| <i>What is the basic RF technology?</i>  | <b>RF1000</b><br><br>125 kHz + 13.56 MHz           | <b>RF200</b><br><br>13.56 MHz               | <b>RF300</b><br><br>13.56 MHz                 | <b>RF600</b><br><br>868/915 MHz                             |
| <b>Environment</b>   | <b>Heavy</b> ← <b>Heavy</b>   |  |  |   |
| <i>What kind of environmental extremes will the tags be subjected to?</i>            | <b>RF200</b><br><br>220° C<br>IP68               | <b>RF300</b><br><br>220° C<br>IP68        | <b>RF600</b><br><br>230° C<br>IP68          |   |
| <b>Read Distance</b>   | <b>Shorter</b> → <b>Longer</b>  |  |  |   |
| <i>How far away can the tag be from the reader antenna system and still be seen?</i> | <b>RF1000</b><br><br>30 mm                         | <b>RF300</b><br><br>210 mm                  | <b>RF200</b><br><br>650 mm                    | <b>RF600</b><br><br>8 meters                                |
| <b>Reader Dimensions</b>   | <b>Smallest</b> → <b>Largest</b>  |  |  |   |
| <i>How much space will there be for mounting the reader/ antenna?</i>                | <b>RF200</b><br><br>M8 x 38                      | <b>RF300</b><br><br>M12 x 40              | <b>RF600</b><br><br>75 x 75 x 20            |   |
| <b>Tag Memory</b>  | <b>Less</b> → <b>More</b>   |  |  |   |
| <i>How many bytes are required to be stored on the tag?</i>                          | <b>RF600</b><br><br>384 bytes                      | <b>RF200</b><br><br>8 kbytes                | <b>RF300</b><br><br>64 kbytes                |   |
| <b>Multitag Mode</b>   | <b>Less</b> → <b>More</b>   |  |  |   |
| <i>Will there be more than one tag in the RF field at a time?</i>                    | <b>RF200</b><br><br>1                            | <b>RF300</b><br><br>1                     | <b>RF600</b><br><br>100+                    |   |
| <b>Metal Effects</b>   | <b>Direct Mount</b> → <b>Spacer Mount</b>   |  |  |   |
| <i>Do tags and reader need to be mounted on or around metal?</i>                     | <b>RF300</b><br><br>Direct with reduction        | <b>RF600</b><br><br>Direct with reduction | <b>RF200</b><br><br>Spacer Mount           |   |
| <b>Tag Speed</b>   | <b>Slower</b> → <b>Faster</b>   |  |  |   |
| <i>How fast will the tag be traveling through the RF field?</i>                      | <b>RF200</b><br><br>26 kbits/sec               | <b>RF300</b><br><br>100 kbits/sec       | <b>RF600</b><br><br>300 kbits/sec         |   |
| <b>Tag Dimensions</b>  | <b>Smallest</b> → <b>Largest</b>  |  |  |   |
| <i>What is the smallest tag size available?</i>                                      | <b>RF200</b><br><br>Ø 4 x 5 mm                   | <b>RF300</b><br><br>Ø 4 x 5 mm            | <b>RF600</b><br><br>Ø 21 x 20 mm           |   |
| <b>Air Interface Protocol</b>  | <b>Siemens</b> → <b>Standard</b>  |  |  |   |
| <i>Are there any requirements regarding the air interface protocol?</i>              | <b>RF300</b><br><br>Siemens/<br>ISO15693/14443 | <b>RF200</b><br><br>ISO 15693           | <b>RF600</b><br><br>ISO 18000<br>-62/ -63 | <b>RF1000</b><br><br>ISO15693/14443<br>Legic, Emxx/Hitag |

| <b>RF200</b><br><b>Family Matrix</b><br>13.56 MHz<br>Passive Tags<br><br>Operational temperature range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) rating   | <b>Antennas</b>  | <b>D165</b><br>6GT2 600-1AB00-0AX0<br>112 byte EEPROM<br><br>-25°C to 85°C<br>86 x 54 x 0.3<br>IP65 | <b>D261</b><br>6GT2 600-1AA01-0AX0<br>256 byte EEPROM<br><br>-25°C to 85°C<br>55 x 55 x 0.3<br>IP65 | <b>D100</b><br>6GT2 600-0AD10<br>112 byte EEPROM<br><br>-25°C to 80°C<br>85,6 x 54 x 0.9<br>IP68 | <b>D200</b><br>6GT2 600-1AD00-0AX0<br>256 byte EEPROM<br><br>-20°C to 60°C<br>85.6 x 54 x 0.8<br>IP67 | <b>D400</b><br>6GT2 600-4AD00<br>2 kbyte FRAM<br><br>-20°C to 60°C<br>85.6 x 54 x 0.8<br>IP67 | <b>D160</b><br>6GT2 600-0AB10<br>112 byte EEPROM<br><br>-40°C to 175°C<br>Ø 16 x 3<br>IP68/IPx9K | <b>D460</b><br>6GT2 600-4AB00<br>2 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 16 x 3<br>IP67/IPx9K | <b>D560</b><br>6GT2 600-5AB00<br>8 kbyte FRAM<br><br>-40°C to 90°C<br>Ø 16 x 3<br>IP68/IPx9K |
|---|--|--|--|---|--|--|---|--|---|
| <b>RF210R/RF210M</b><br>6GT2 821-1AC10, RS422<br>6GT2 821-1AC32 / -1BC32, IO-Link*<br>6GT2 823-0AA00, Handheld (RS422)<br>                             | <b>Integrated</b><br>M18 x 71  |  |  |   |  |  | 1-10/ 12<br>(0.04-0.39/0.47)  | 1-8/ 9<br>(0.04-0.31/0.35)   | 1-8/ 9<br>(0.04-0.31/0.35)  |
| <b>RF220R</b><br>6GT2 821-2AC10, RS422<br>6GT2 821-2AC32 / -2BC32, IO-Link*<br>  | <b>Integrated</b><br>M30 x 71  |  |  |   |  |  | 1-20/ 22<br>(0.04-0.79/0.87)  | 1-18/ 20<br>(0.04-0.71/0.79)   | 1-18/ 20<br>(0.04-0.71/0.79)  |
| <b>RF240R</b><br>6GT2 821-4AC10, RS422<br>6GT2 821-4AC40, RS232 (ASCII)<br>6GT2821-4AC32 / -4BC32, IO-Link*<br>  | <b>Integrated</b><br>50 x 50 x 30  | 2-80/ 94<br>(0.08-3.15/3.70)   | 2-60/ 70<br>(0.08-2.36/2.76)   | 2-84/ 95<br>(0.08-3.31/3.74)  | 2-69/ 78<br>(0.08-2.72/3.07)   | 2-80/ 90<br>(0.08-3.15/3.54)   | 1-33/ 37<br>(0.04-1.30/1.46)  | 1-30/ 34<br>(0.04-1.18/1.34)   | 1-30/ 34<br>(0.04-1.18/1.34)  |
| <b>RF250R ANT 1</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1CB00, ANT 1<br>         | <br>75 x 75 x 20  | 5-95/ 110<br>(0.20-3.74/4.33)  | 2-90/ 110<br>(0.08-3.54/4.33)  | 5-95/ 115<br>(0.20-3.74/4.53)   | 5-90/ 100<br>(0.20-3.54/3.94)  | 10-95/ 110<br>(0.39-3.74/4.33)   | 2-35/ 45<br>(0.08-1.38/1.77)  | 2-30/ 40<br>(0.08-1.18/1.57)   | 2-30/ 40<br>(0.08-1.18/1.57)  |
| <b>RF250R ANT 3</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1CD40-0AX0, ANT 3<br>    | <br>28 x 50 x 10  |  |  |   |  |  | 1-23/ 30<br>(0.04-0.91/1.18)  | 0-21/ 27<br>(0-0.83/1.06)  | 0-21/ 27<br>(0-0.83/1.06)   |
| <b>RF250R ANT 3S</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1CD60-0AX0, ANT 3S<br> | <br>28 x 50 x 10 |  |  |   |  |  |   |  |   |
| <b>RF250R ANT 8</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1CF10, ANT 8<br>       | <br>Ø8 x 38     |  |  |   |  |  |   |  |   |
| <b>RF250R ANT 12</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1DC10, ANT 12**<br>   | <br>Ø12 x 40    |  |  |   |  |  | 0-12/ 17<br>(0-0.47/0.67)   | 1-10/ 14<br>(0.04-0.39/0.55)   | 1-10/ 14<br>(0.04-0.39/0.55)  |
| <b>Accessories</b>  |  |  |  | Holder<br>(6GT2 390-0AA00)<br>20 mm spacer<br>(6GT2 190-0AA00)<br>Fixing pocket<br>(6GT2 190-0AB00)   | Holder<br>(6GT2 390-0AA00)<br>20 mm spacer<br>(6GT2 190-0AA00)<br>Fixing pocket<br>(6GT2 190-0AB00)  | Holder<br>(6GT2 390-0AA00)<br>20 mm spacer<br>(6GT2 190-0AA00)<br>Fixing pocket<br>(6GT2 190-0AB00)  | Spacer<br>(6GT2 690-0AG00)<br>Angle pattern<br>body<br>(6GT2690-0AN00)  | Spacer<br>(6GT2 690-0AG00)<br>Angle pattern<br>body<br>(6GT2690-0AN00)   | Spacer<br>(6GT2 690-0AG00)<br>Angle pattern<br>body<br>(6GT2690-0AN00)  |

**Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)**

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)


















| <b>RF200</b><br><b>Family Matrix</b><br>13.56 MHz<br>Passive Tags<br><br>Operational temperature range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) rating  | Antennas  | D165  | D261   | D100  | D200  | D400   | D160  | D460   | D560   |
|--|---|---|--|---|---|--|---|--|--|
|  | 6GT2 600-1AB00-0AX0<br>112 byte EEPROM<br><br>-25°C to 85°C<br>86 x 54 x 0.3<br>IP65 | 6GT2 600-1AA01-0AX0<br>256 byte EEPROM<br><br>-25°C to 85°C<br>55 x 55 x 0.3<br>IP65 | 6GT2 600-0AD10<br>112 byte EEPROM<br><br>-25°C to 80°C<br>85,6 x 54 x 0.9<br>IP68 | 6GT2 600-1AD00-0AX0<br>256 byte EEPROM<br><br>-20°C to 60°C<br>85.6 x 54 x 0.8<br>IP67 | 6GT2 600-4AD00<br>2 kbyte FRAM<br><br>-20°C to 60°C<br>85.6 x 54 x 0.8<br>IP67 | 6GT2 600-0AB10<br>112 byte EEPROM<br><br>-40°C to 175°C<br>Ø 16 x 3<br>IP68/IPx9K | 6GT2 600-4AB00<br>2 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 16 x 3<br>IP67/IPx9K | 6GT2 600-5AB00<br>8 kbyte FRAM<br><br>-40°C to 90°C<br>Ø 16 x 3<br>IP68/IPx9K |  |
| <b>RF250R ANT 18</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1DA10, ANT 18**  | <br>Ø18 x 40   |   |  |   |   |  | 1-18/ 26<br>(0.04-0.71/ 1.02)   | 1-17/ 21<br>(0.04-0.67/ 0.83)  | 1-17/ 21<br>(0.04-0.67/ 0.83)  |
| <b>RF250R ANT 30</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1DD10, ANT 30    | <br>Ø30 x 40   |   |  |   |   |  | 1-23/ 30<br>(0.04-0.91/ 1.18)   | 1-21/ 27<br>(0.04-0.83/ 1.06)  | 1-21/ 27<br>(0.04-0.83/ 1.06)  |
| <b>RF260R</b><br>6GT2 821-6AC10, RS422<br>6GT2 821-6AC40, RS232 (ASCII)<br>6GT2 821-6AC32 / -6BC32, IO-Link*                                    | <b>Integrated</b>   | 2-120/ 135<br>(0.08-4.72/ 5.31)   | 2-75/ 90<br>(0.08-2.95/ 3.54)  | 2-110/ 130<br>(0.08-4.33/ 5.12)   | 2-100/ 120<br>(1.18-3.94/ 4.72)   | 2-90/ 120<br>(0.08-3.54/ 4.72)   | 2-40/ 45<br>(0.08-1.57/ 1.77)   | 2-40/45<br>(0.08-1.57/ 1.77)   | 2-40/45<br>(0.08-1.57/ 1.77)   |
| <b>RF280R</b><br>6GT2 821-8AC10, RS422<br>6GT2 821-8AC40, RS232 (ASCII)   | <b>Integrated</b>   | 10 -160/ 190<br>(0.39-6.3/ 7.48)  | 20-110/ 150<br>(0.79-4.33/ 5.91)   | 10-160/ 200<br>(0.39-6.3/ 7.87)   | 20-140/ 185<br>(0.79-5.51/ 7.28)  | 5-150/ 180<br>(0.20-5.91/ 7.09)  | 2-55/ 70<br>(0.08-2.17/ 2.76)   | 2-55/ 70<br>(0.08-2.17/ 2.76)  | 2-55/ 70<br>(0.08-2.17/ 2.76)  |
| <b>Accessories</b>   |   |   |  | Holder<br>(6GT2 390-0AA00)<br>20 mm spacer<br>(6GT2 190-0AA00)<br>Fixing pocket<br>(6GT2 190-0AB00)   | Holder<br>(6GT2 390-0AA00)<br>20 mm spacer<br>(6GT2 190-0AA00)<br>Fixing pocket<br>(6GT2 190-0AB00)   | Holder<br>(6GT2 390-0AA00)<br>20 mm spacer<br>(6GT2 190-0AA00)<br>Fixing pocket<br>(6GT2 190-0AB00)  | Spacer<br>(6GT2 690-0AG00)<br>Angle pattern<br>body<br>(6GT2690-0AN00)  | Spacer<br>(6GT2 690-0AG00)<br>Angle pattern<br>body<br>(6GT2690-0AN00)   | Spacer<br>(6GT2 690-0AG00)<br>Angle pattern<br>body<br>(6GT2690-0AN00) |

\* not with Tags D5xx

\*\* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC10 (ANT12) or 6GT2398-1DA00 (ANT18)




















**Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)**

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| <b>RF200</b><br><b>Family Matrix</b><br>13.56 MHz<br>Passive Tags<br>Operational temperature range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) rating                                   | <b>Antennas</b>   | <b>D165</b><br>6GT2 600-1AB00-0AX0<br>112 byte EEPROM<br><br>-25°C to 85°C<br>86 x 54 x 0.3<br>IP65 | <b>D261</b><br>6GT2 600-1AA01-0AX0<br>256 byte EEPROM<br><br>-25°C to 85°C<br>55 x 55 x 0.3<br>IP65 | <b>D100</b><br>6GT2 600-0AD10<br>112 byte EEPROM<br><br>-25°C to 80°C<br>85,6 x 54 x 0.9<br>IP68 | <b>D200</b><br>6GT2 600-1AD00-0AX0<br>256 byte EEPROM<br><br>-20°C to 60°C<br>85.6 x 54 x 0.8<br>IP67 | <b>D400</b><br>6GT2 600-4AD00<br>2 kbyte FRAM<br><br>-20°C to 60°C<br>85.6 x 54 x 0.8<br>IP67 | <b>D160</b><br>6GT2 600-0AB10<br>112 byte EEPROM<br><br>-40°C to 175°C<br>Ø 16 x 3<br>IP68/IPx9K | <b>D460</b><br>6GT2 600-4AB00<br>2 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 16 x 3<br>IP67/IPx9K | <b>D560</b><br>6GT2 600-5AB00<br>8 kbyte FRAM<br><br>-40°C to 90°C<br>Ø 16 x 3<br>IP68/IPx9K |
|---|---|--|--|---|--|--|---|--|---|
| <b>RF285R</b><br>6GT2821-7AC12, RS232<br><br>Accessory:<br>Set for top rail mounting<br>6GK5798-8ML00-0AB3         | <b>ANT D1</b><br><br>6GT2 698-5AC00<br>75 x 75 x 20        | 10-150/200<br>(0.39-5.91/7.87)   | 5-130/180<br>(0.20-5.12/7.09)  | 10-150/200<br>(0.39-5.91/7.87)  | 10-130/180<br>(0.39-5.12/7.09)   | 10-105/145<br>(0.39-4.13/5.71)   | 0-65/90<br>(0-2.56/3.54)  | 0-60/85<br>(0-2.36/3.35)   | 0-60/85<br>(0-2.36/3.35)  |
|   | <b>ANT D5</b><br><br>6GT2 698-5AA10<br>380 x 380 x 110     | 0-300/380<br>(0-11.81/14.96)   | 0-300/380<br>(0-11.81/14.96)   | 0-350/450<br>(0-13.78/17.72)  | 0-350/450<br>(0-13.78/17.72)   | 0-240/320<br>(0-9.45/12.6)   | 0-110/140<br>(0-4.33/5.51)  | 0-100/120<br>(0-3.94/4.72)   | 0-110/140<br>(0-4.33/5.51)  |
|   | <b>ANT D6</b><br><br>6GT2 698-5AB00<br>580 x 480 x 110     | 0-350/450<br>(0-13.78/17.72)   | 0-300/400<br>(0-11.81/15.75)   | 0-450/550<br>(0-17.72/21.65)  | 0-350/450<br>(0-13.78/17.72)   | 0-320/400<br>(0-12.6/15.75)  |   |  |   |
| <b>RF290R</b><br>6GT2 821-0AC12, RS232, RS422<br><br>Accessory:<br>Set for top rail mounting<br>6GK5798-8ML00-0AB3 | <b>ANT D1</b><br><br>6GT2 698-5AC00<br>75 x 75 x 20        | 10-180/ 250<br>(0.39-7.09/9.84)  | 5-130/ 180<br>(0.39-5.12/7.09)   | 10-180/ 250<br>(0.39-7.09/9.84)   | 10-170/240<br>(0.39-6.69/9.45)   | 10-170/240<br>(0.39-6.69/9.45)   | 0-65/90<br>(0-2.56/3.54)  | 0-60/85<br>(0-2.36/3.35)   | 0-60/85<br>(0-2.36/3.35)  |
|   | <b>ANT D5</b><br><br>6GT2 698-5AA10<br>380 x 380 x 110     | 0-350/ 450<br>(0-13.78/17.72)  | 0-300/ 400<br>(0-11.81/15.75)  | 0-400/ 500<br>(0-15.75/19.69)   | 0-400/ 500<br>(0-15.75/19.69)  | 0-300/ 375<br>(0-11.81/14.76)  | 0-130/ 180<br>(0-5.12/7.09)   | 0-120/ 160<br>(0-4.72/6.30)  | 0-120/ 160<br>(0-4.72/6.30)   |
|   | <b>ANT D6</b><br><br>6GT2 698-5AB00<br>580 x 480 x 110    | 0-400/ 500<br>(0-15.75/19.69)  | 0-350/ 450<br>(0-13.78/17.72)  | 0-550/ 650<br>(0-21.65/25.59)   | 0-500/ 600<br>(0-19.69/23.62)  | 0-500/ 650<br>(0-19.69/25.59)  |   |  |   |
|   | <b>ANT D10</b><br><br>6GT2 698-5AF00<br>1150 x 365 x 115 | 0-350/ 450<br>(0-13.78/17.72)  | 0-350/ 450<br>(0-13.78/17.72)  | 0-500/ 600<br>(0-19.69/23.62)   | 0-450/ 550<br>(0-17.72/21.65)  | 0-400/ 500<br>(0-15.75/19.69)  |   |  |   |
| <b>Accessories</b>  | Covering hood<br>for ANT D6<br>(6GT2 690-0AD00)   |  |  | Holder<br>(6GT2 390-0AA00)<br>20 mm spacer<br>(6GT2 190-0AA00)<br>Fixing pocket<br>(6GT2 190-0AB00)   | Holder<br>(6GT2 390-0AA00)<br>20 mm spacer<br>(6GT2 190-0AA00)<br>Fixing pocket<br>(6GT2 190-0AB00)  | Holder<br>(6GT2 390-0AA00)<br>20 mm spacer<br>(6GT2 190-0AA00)<br>Fixing pocket<br>(6GT2 190-0AB00)  | Spacer<br>(6GT2 690-0AG00)<br>Angle pattern<br>body<br>(6GT2690-0AN00)  | Spacer<br>(6GT2 690-0AG00)<br>Angle pattern<br>body<br>(6GT2690-0AN00)   | Spacer<br>(6GT2 690-0AG00)<br>Angle pattern<br>body<br>(6GT2690-0AN00)  |













Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| <b>RF200 Family Matrix</b><br><br>13.56 MHz<br>Passive Tags<br><br>Operational temperature range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) rating  | <b>Antennas</b>  | <b>D117</b><br>6GT2 600-0AG00<br>112 byte EEPROM<br><br><br><br>-40°C to 125°C<br>Ø4 x 5.2<br>IP68 IPx9K | <b>D127</b><br>6GT2 600-0AF00<br>112 byte EEPROM<br><br><br><br>-40°C to 125°C<br>Ø 6 x 5.8<br>IP68/ IPx9K | <b>D421</b><br>6GT2 600-4AE00<br>2 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø10 x 4.5<br>IP67/ IPx9K | <b>D521</b><br>6GT2 600-5AE00<br>8 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø10 x 4.5<br>IP67/ IPx9K | <b>D422</b><br>6GT2 600-4AF00<br>2 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø20 x 6<br>IP68 | <b>D522</b><br>6GT2600-5AF00<br>6GT2600-5AF00-0AX0<br>8 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø20 x 6 ; Ø18 x 5.2<br>IP68 |
|--|--|---|---|--|--|---|--|
| <b>RF210R/ RF210M</b><br>6GT2 821-1AC10, RS422<br>6GT2 821-1AC32 / -1BC32, IO-Link*<br>6GT2 823-0AA00, Handheld (RS422)<br>                             | <b>Integrated</b><br><br>M18 x 71  |   | 0-2/ 2<br>(0-0.08/0.08)   | 0-3/ 4<br>(0.0-0.12/0.16)  | 0-3/ 4<br>(0-0.12/0.16)  | 1-9/ 10<br>(0.04-0.35/0.39)   | 1-8/ 9<br>(0.04-0.31/0.35)   |
| <b>RF220R</b><br>6GT2 821-2AC10, RS422<br>6GT2 821-2AC32 / -2BC32, IO-Link*<br>   | <b>Integrated</b><br><br>M30 x 71  |   |   |  |  | 1-12/ 14<br>(0.04-0.47/0.55)  | 1-10/ 12<br>(0.04-0.39/0.47)   |
| <b>RF240R</b><br>6GT2 821-4AC10, RS422<br>6GT2 821-4AC40, RS232 (ASCII)<br>6GT2821-4AC32 / -4BC32, IO-Link*<br>   | <b>Integrated</b><br><br>50 x 50 x 30  |   |   |  |  | 1-12/ 15<br>(0.04-0.47/0.59)  | 1-10/ 12<br>(0.04-0.39/0.47)   |
| <b>RF250R ANT 1</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1CB00, ANT 1<br>          | <br>75 x 75 x 20  |   |   |  |  |   |  |
| <b>RF250R ANT 3</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1CD40-0AX0, ANT 3<br>     | <br>28 x 50 x 10  |   |   |  |  | 1-12/ 15<br>(0.04-0.47/0.59)  | 1-12/ 15<br>(0.04-0.47/0.59)   |
| <b>RF250R ANT 3S</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1CD60-0AX0, ANT 3S<br> | <br>28 x 50 x 10 | 0-2/ 3<br>(0-0.08/0.12)   | 0-2/ 3<br>(0-0.08/0.12)   | 0-3/ 4<br>(0-0.12/0.16)  | 0-3/ 4<br>(0-0.12/0.16)  |   |  |
| <b>RF250R ANT 8</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1CF10, ANT 8<br>        | <br>Ø8 x 38     | 0-2/ 3<br>(0-0.08/0.12)   | 0-3/ 4<br>(0-0.12/0.16)   | 0-3/ 4<br>(0-0.12/0.16)  | 0-3/ 4<br>(0-0.12/0.16)  |   |  |
| <b>RF250R ANT 12</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1DC10, ANT 12**<br>    | <br>Ø12 x 40    | 0-3/ 4<br>(0-0.12/0.16)   | 0-4/ 5<br>(0-0.16/0.2)  | 0-3/ 4<br>(0-0.12/0.16)  | 0-3/ 4<br>(0-0.12/0.16)  | 0-7/ 10<br>(0-0.28/0.39)  | 1-7/ 9<br>(0.04-0.28/0.35)   |
| <b>Accessories</b>   |  |   |   |  |  |   |  |

**Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)**

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| <b>RF200 Family Matrix</b><br><br>13.56 MHz<br>Passive Tags<br><br>Operational temperature range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) rating  | <b>Antennas</b>   | <b>D117</b><br>6GT2 600-0AG00<br>112 byte EEPROM<br><br><br><br>-40°C to 125°C<br>Ø4 x 5.2<br>IP68 IPx9K | <b>D127</b><br>6GT2 600-0AF00<br>112 byte EEPROM<br><br><br><br>-40°C to 125°C<br>Ø 6 x 5.8<br>IP68/ IPx9K | <b>D421</b><br>6GT2 600-4AE00<br>2 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø10 x 4.5<br>IP67/ IPx9K | <b>D521</b><br>6GT2 600-5AE00<br>8 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø10 x 4.5<br>IP67/ IPx9K | <b>D422</b><br>6GT2 600-4AF00<br>2 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø20 x 6<br>IP68 | <b>D522</b><br>6GT2600-5AF00<br>6GT2600-5AF00-0AX0<br>8 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø20 x 6 ; Ø18 x 5.2<br>IP68 |
|--|---|---|---|--|--|---|--|
| <b>RF250R ANT 18</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1DA10, ANT 18**  | <br>Ø18 x 40 |   |   | 0-3/ 5<br>(0-0.12/0.20)  | 0-4/ 5<br>(0-0.16/0.20)  | 1-8/ 14<br>(0.04-0.31/0.55)   | 1-10/ 12<br>(0.04-0.39/0.47)   |
| <b>RF250R ANT 30</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1DD10, ANT 30    | <br>Ø30 x 40 |   |   |  |  | 0-12/ 15<br>(0-0.47/0.59)   | 1-12/ 15<br>(0.04-0.47/0.59)   |
| <b>RF260R</b><br>6GT2 821-6AC10, RS422<br>6GT2 821-6AC40, RS232 (ASCII)<br>6GT2 821-6AC32 / -6BC32, IO-Link*                                    | <b>Integrated</b><br><br>75 x 75 x 41   |   |   |  |  |   |  |
| <b>RF280R</b><br>6GT2 821-8AC10, RS422<br>6GT2 821-8AC40, RS232 (ASCII)   | <b>Integrated</b><br><br>160 x 96 x 41  |   |   |  |  |   |  |
| <b>Accessories</b>   |   |   |   |  |  |   |  |
















\* not with Tags D5xx

\*\* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC10 (ANT12) or 6GT2398-1DA00 (ANT18)

**Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)**





















Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)



| <b>RF200 Family Matrix</b><br><br>13.56 MHz<br>Passive Tags<br><br>Operational temperature range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) rating  | <b>Antennas</b>   | <b>D117</b><br>6GT2 600-0AG00<br>112 byte EEPROM<br><br><br><br>-40°C to 125°C<br>Ø4 x 5.2<br>IP68 IPx9K | <b>D127</b><br>6GT2 600-0AF00<br>112 byte EEPROM<br><br><br><br>-40°C to 125°C<br>Ø 6 x 5.8<br>IP68/ IPx9K | <b>D421</b><br>6GT2 600-4AE00<br>2 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø10 x 4.5<br>IP67/ IPx9K | <b>D521</b><br>6GT2 600-5AE00<br>8 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø10 x 4.5<br>IP67/ IPx9K | <b>D422</b><br>6GT2 600-4AF00<br>2 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø20 x 6<br>IP68 | <b>D522</b><br>6GT2600-5AF00<br>6GT2600-5AF00-0AX0<br>8 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø20 x 6 ; Ø18 x 5.2<br>IP68 |
|--|---|---|---|--|--|---|--|
| <b>RF285R</b><br>6GT2821-7AC12, RS232<br><br><br><br><b>Accessory:</b><br>Set for top rail mounting<br>6GK5798-8ML00-0AB3         | <b>ANT D1</b><br><br>6GT2 698-5AC00<br>75 x 75 x 20        |   |   |  |  |   |  |
|  | <b>ANT D5</b><br><br>6GT2 698-5AA10<br>380 x 380 x 110     |   |   |  |  |   |  |
|  | <b>ANT D6</b><br><br>6GT2 698-5AB00<br>580 x 480 x 110     |   |   |  |  |   |  |
| <b>RF290R</b><br>6GT2 821-0AC12, RS232, RS422<br><br><br><br><b>Accessory:</b><br>Set for top rail mounting<br>6GK5798-8ML00-0AB3 | <b>ANT D1</b><br><br>6GT2 698-5AC00<br>75 x 75 x 20        |   |   |  |  |   |  |
|  | <b>ANT D5</b><br><br>6GT2 698-5AA10<br>380 x 380 x 110     |   |   |  |  |   |  |
|  | <b>ANT D6</b><br><br>6GT2 698-5AB00<br>580 x 480 x 110   |   |   |  |  |   |  |
|  | <b>ANT D10</b><br><br>6GT2 698-5AF00<br>1150 x 365 x 115 |   |   |  |  |   |  |
| <b>Accessories</b>   | Covering hood<br>for ANT D6<br>(6GT2 690-0AD00)   |   |   |  |  |   |  |












Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| <b>RF200 Family Matrix</b><br><br>13.56 MHz<br>Passive Tags<br><br>Operational temperature range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) rating  | <b>Antennas</b>   | <b>D124</b><br>6GT2 600-0AC10<br>112 byte EEPROM<br><br>-40°C to 180°C<br>Ø 27 x 4<br>IP68/ IPx9K | <b>D324</b><br>6GT2 600-3AC00<br>992 byte EEPROM<br><br>-40°C to 140°C<br>Ø 27 x 4<br>IP67 | <b>D424</b><br>6GT2 600-4AC00<br>2 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 27 x 4<br>IP67/ IPx9K | <b>D524</b><br>6GT2 600-5AC00<br>8 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 27 x 4<br>IP67/ IPx9K | <b>D126</b><br>6GT2 600-0AE00<br>112 byte EEPROM<br><br>-40°C to 100°C<br>Ø 50 x 3.6<br>IP68 | <b>D426</b><br>6GT2 600-4AH00<br>2 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 50 x 3.6<br>IP68 | <b>D526</b><br>6GT2 600-5AH00<br>8 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 50 x 3.6<br>IP68 |
|--|---|--|--|---|---|---|--|--|
| <b>RF210R/ RF210M</b><br>6GT2 821-1AC10, RS422<br>6GT2 821-1AC32 / -1BC32, IO-Link*<br>6GT2 823-0AA00, Handheld (RS422)<br>                             | <b>Integrated</b><br><br>M18 x 71   | 1-18/ 20<br>(0.04-0.71/0.79)   | 1-8/ 9<br>(0.04-0.31/0.35)   | 1-16/ 18<br>(0.04-0.63/0.71)  | 1-15/ 17<br>(0.04-0.59/0.67)  |   |  |  |
| <b>RF220R</b><br>6GT2 821-2AC10, RS422<br>6GT2 821-2AC32 / -2BC32, IO-Link*<br>   | <b>Integrated</b><br><br>M30 x 71   | 1-28/ 31<br>(0.04-1.10/1.22)   | 2-21/ 25<br>(0.08-0.83/0.98)   | 2-25/ 29<br>(0.08-0.98/1.14)  | 2-22/ 25<br>(0.08-0.87/0.98)  | 2-30/ 35<br>(0.08-1.18/1.38)  | 2-25/ 30<br>(0.08-0.98/1.18)   | 2-25/ 30<br>(0.08-0.98/1.18)   |
| <b>RF240R</b><br>6GT2 821-4AC10, RS422<br>6GT2 821-4AC40, RS232 (ASCII)<br>6GT2821-4AC32 / -4BC32, IO-Link*<br>   | <b>Integrated</b><br><br>50 x 50 x 30   | 2-53/ 60<br>(0.08-2.09/2.36)   | 1-36/ 40<br>(0.04-1.42/1.57)   | 1-47/ 53<br>(0.04-1.85/2.09)  | 1-45/ 55<br>(0.04-1.77/2.17)  | 2-57/ 65<br>(0.08-2.24/2.56)  | 2-45/ 55<br>(0.08-1.77/2.17)   | 2-45/ 55<br>(0.08-1.77/2.17)   |
| <b>RF250R ANT 1</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1CB00, ANT 1<br>          | <br>75 x 75 x 20   | 2-60/ 75<br>(0.08-2.36/2.95)   | 5-60/ 70<br>(0.20-2.36/2.76)   | 2-70/ 80<br>(0.08-2.76/3.15)  | 1-65/ 80<br>(0.04-2.56/3.15)  | 2-80/ 95<br>(0.08-3.15/3.74)  | 2-80/ 95<br>(0.08-3.15/3.74)   | 2-80/ 95<br>(0.08/3.15/3.74)   |
| <b>RF250R ANT 3</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1CD40-0AX0, ANT 3<br>     | <br>28 x 50 x 10   | 2-32/ 40<br>(0.08-1.26/1.57)   | 2-22/ 35<br>(0.08-0.87/1.38)   | 0-34/ 48<br>(0-1.34/1.89)   | 1-35/ 40<br>(0.04-1.38/1.57)  | 0-47/ 60<br>(0-1.85/2.36)   | 0-44/ 58<br>(0-1.73/2.28)  | 2-35/ 45<br>(0.08-1.38/1.77)   |
| <b>RF250R ANT 3S</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1CD60-0AX0, ANT 3S<br> | <br>28 x 50 x 10 |  |  |   |   |   |  |  |
| <b>RF250R ANT 8</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1CF10, ANT 8<br>        | <br>Ø8 x 38      |  |  |   |   |   |  |  |
| <b>RF250R ANT 12</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1DC10, ANT 12**<br>    | <br>Ø12 x 40     |  |  |   |   |   |  |  |
| <b>Accessories</b>   |   | Spacer<br>(6GT2 690-0AK00)   | Spacer<br>(6GT2 690-0AK00)   | Spacer<br>(6GT2 690-0AK00)  | Spacer<br>(6GT2 690-0AK00)  | Spacer<br>(6GT2 690-0AL00)  | Spacer<br>(6GT2 690-0AL00)   | Spacer<br>(6GT2 690-0AL00)   |

**Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)**

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

















| <b>RF200 Family Matrix</b><br><br>13.56 MHz<br>Passive Tags<br><br>Operational temperature range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) rating | <b>Antennas</b>  | <b>D124</b><br>6GT2 600-0AC10<br>112 byte EEPROM<br><br>-40°C to 180°C<br>Ø 27 x 4<br>IP68/ IPx9K | <b>D324</b><br>6GT2 600-3AC00<br>992 byte EEPROM<br><br>-40°C to 140°C<br>Ø 27 x 4<br>IP67 | <b>D424</b><br>6GT2 600-4AC00<br>2 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 27 x 4<br>IP67/ IPx9K | <b>D524</b><br>6GT2 600-5AC00<br>8 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 27 x 4<br>IP67/ IPx9K | <b>D126</b><br>6GT2 600-0AE00<br>112 byte EEPROM<br><br>-40°C to 100°C<br>Ø 50 x 3.6<br>IP68 | <b>D426</b><br>6GT2 600-4AH00<br>2 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 50 x 3.6<br>IP68 | <b>D526</b><br>6GT2 600-5AH00<br>8 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 50 x 3.6<br>IP68 |
|---|--|--|--|---|---|---|--|--|
| <b>RF250R ANT 18</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1DA10, ANT 18**                  | <br>Ø18 x 40                    | 0-24/ 37<br>(0.0-0.94/ 1.46)   | 1-18/ 27<br>(0.04-0.71/ 1.06)  | 1-27/ 36<br>(0.04-1.06/ 1.42)   | 1-25/ 30<br>(0.04-0.98/ 1.18)   |   |  |  |
| <b>RF250R ANT 30</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1DD10, ANT 30                    | <br>Ø30 x 40                    | 1-35/ 48<br>(0.08-1.38/ 1.89)  | 1-22/ 35<br>(0.04-0.87/ 1.38)  | 0-34/ 48<br>(0-1.34/ 1.89)  | 1-35/ 40<br>(0.04-1.38/ 1.57)   | 0-47/ 60<br>(0-1.85/ 2.36)  | 0-44/ 58<br>0-1.73/ 2.28)  | 2-35/ 45<br>(0.08-1.38/ 1.77)  |
| <b>RF260R</b><br>6GT2 821-6AC10, RS422<br>6GT2 821-6AC40, RS232 (ASCII)<br>6GT2 821-6AC32 / -6BC32, IO-Link*  | <br>Integrated<br>75 x 75 x 41  | 2-80/ 85<br>(0.08-3.15/ 3.35)  | 2-60/ 70<br>(0.08-2.36/ 2.76)  | 2-60/ 70<br>(0.08-2.36/ 2.76)   | 2-60/ 70<br>(0.08-2.36/ 2.76)   | 2-75/ 100<br>(0.08-2.95/ 3.94)  | 2-70/ 85<br>(0.08-2.76/ 3.35)  | 2-70/ 85<br>(0.08-2.76/ 3.35)  |
| <b>RF280R</b><br>6GT2 821-8AC10, RS422<br>6GT2 821-8AC40, RS232 (ASCII)   | <br>Integrated<br>160 x 96 x 41 | 2-110/ 130<br>(0.08-4.33/ 5.12)  | 2-85/ 110<br>(0.08-3.35/ 4.33)   | 2-100/ 140<br>(0.08-3.94/ 5.51)   | 2-110/ 130<br>(0.08-4.33/ 5.12)   | 2-135/ 160<br>(0.08-5.31/ 6.3)  | 2-145/ 175<br>(0.08-5.71/ 6.89)  | 2-135/ 165<br>(0.08-5.31/ 6.5)   |
| <b>Accessories</b>  |  | Spacer<br>(6GT2 690-0AK00)   | Spacer<br>(6GT2 690-0AK00)   | Spacer<br>(6GT2 690-0AK00)  | Spacer<br>(6GT2 690-0AK00)  | Spacer<br>(6GT2 690-0AL00)  | Spacer<br>(6GT2 690-0AL00)   | Spacer<br>(6GT2 690-0AL00)   |

\* not with Tags D5xx

\*\* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC10 (ANT12) or 6GT2398-1DA00 (ANT18)





















**Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)**

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| <b>RF200 Family Matrix</b><br><br>13.56 MHz<br>Passive Tags<br><br>Operational temperature range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) rating  | <b>Antennas</b>   | <b>D124</b><br>6GT2 600-0AC10<br>112 byte EEPROM<br><br>-40°C to 180°C<br>Ø 27 x 4<br>IP68/ IPx9K | <b>D324</b><br>6GT2 600-3AC00<br>992 byte EEPROM<br><br>-40°C to 140°C<br>Ø 27 x 4<br>IP67 | <b>D424</b><br>6GT2 600-4AC00<br>2 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 27 x 4<br>IP67/ IPx9K | <b>D524</b><br>6GT2 600-5AC00<br>8 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 27 x 4<br>IP67/ IPx9K | <b>D126</b><br>6GT2 600-0AE00<br>112 byte EEPROM<br><br>-40°C to 100°C<br>Ø 50 x 3.6<br>IP68 | <b>D426</b><br>6GT2 600-4AH00<br>2 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 50 x 3.6<br>IP68 | <b>D526</b><br>6GT2 600-5AH00<br>8 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 50 x 3.6<br>IP68 |
|--|---|--|--|---|---|---|--|--|
| <b>RF285R</b><br>6GT2821-7AC12, RS232<br><br><br><b>Accessory:</b><br>Set for top rail mounting<br>6GK5798-8ML00-0AB3         | <b>ANT D1</b><br><br>6GT2 698-5AC00<br>75 x 75 x 20        | 0-100/140<br>(0-3.94/ 5.51)  | 0-90/130<br>(0-3.54/ 5.12)   | 0-90/130<br>(0-3.54/ 5.12)  | 0-90/130<br>(0-3.54/ 5.12)  | 5-110/150<br>(0.20-4.34/ 5.91)  | 5-100/140<br>(0.20-3.94/ 5.51)   | 5-100/140<br>(0.20-3.94/ 5.51)   |
|  | <b>ANT D5</b><br><br>6GT2 698-5AA10<br>380 x 380 x 110     | 0-180/240<br>(0-7.09/ 9.45)  | 0-150/200<br>(0-5.91/ 7.87)  | 0-180/240<br>(0-7.09/ 9.45)   | 0-180/240<br>(0-7.09/ 9.45)   | 0-300/380<br>(0-11.81/ 14.96)   | 0-250/320<br>(0-9.84/ 12.60)   | 0-250/320<br>(0-9.84/ 12.60)   |
|  | <b>ANT D6</b><br><br>6GT2 698-5AB00<br>580 x 480 x 110     | 0-200/280<br>(0-7.87/ 11)  | 0-180/240<br>(0-7.09/ 9.45)  | 0-200/280<br>(0-7.87/ 11)   | 0-200/250<br>(0-7.87/ 9.84)   | 0-350/450<br>(0-13.78/ 17.72)   | 0-300/380<br>(0-11.81/ 14.96)  | 0-300/380<br>(0-11.81/ 14.96)  |
| <b>RF290R</b><br>6GT2 821-0AC12, RS232, RS422<br><br><br><b>Accessory:</b><br>Set for top rail mounting<br>6GK5798-8ML00-0AB3 | <b>ANT D1</b><br><br>6GT2 698-5AC00<br>75 x 75 x 20        | 0-100/ 140<br>(0-3.94/ 5.51)   | 0-90/ 130<br>(0-3.54/ 5.12)  | 0-90/ 130<br>(0-3.54/ 5.12)   | 0-90/ 130<br>(0.00-3.54/ 5.12)  | 5-110/150<br>(0.20-4.34/ 5.91)  | 5-100/ 140<br>(0.20-3.94/ 5.51)  | 5-100/ 140<br>(0.20-3.94/ 5.51)  |
|  | <b>ANT D5</b><br><br>6GT2 698-5AA10<br>380 x 380 x 110     | 0-200/ 280<br>(0-7.87/ 11)   | 0-200/ 280<br>(0-7.87/ 11)   | 0-200/ 280<br>(0-7.87/ 11)  | 0-200/ 280<br>(0-7.87/ 11)  | 0-350/ 400<br>(0-13.78/ 15.75)  | 0-300/ 350<br>(0-11.81/ 13.78)   | 0-300/ 350<br>(0-11.81/ 13.78)   |
|  | <b>ANT D6</b><br><br>6GT2 698-5AB00<br>580 x 480 x 110    | 0-220/ 300<br>(0-8.66/ 11.81)  | 0-200/ 280<br>(0-7.87/ 11)   | 0-220/ 300<br>(0-8.66/ 11.81)   | 0-220/ 300<br>(0-8.66/ 11.81)   | 0-400/ 500<br>(0-15.75/ 19.69)  | 0-350/ 400<br>(0-13.78/ 15.75)   | 0-350/ 400<br>(0-13.78/ 15.75)   |
|  | <b>ANT D10</b><br><br>6GT2 698-5AF00<br>1150 x 365 x 115 | 0-200/ 280<br>(0-7.87/ 11)   | 0-200/ 280<br>(0-7.87/ 11)   | 0-200/ 280<br>(0-7.87/ 11)  | 0-220/ 300<br>(0-8.66/ 11.81)   | 0-400/ 500<br>(0-15.75/ 19.69)  | 0-350/ 400<br>(0-13.78/ 15.75)   | 0-350/ 400<br>(0-13.78/ 15.75)   |
| <b>Accessories</b>   | Covering hood<br>for ANT D6<br>(6GT2 690-0AD00)   | Spacer<br>(6GT2 690-0AK00)   | Spacer<br>(6GT2 690-0AK00)   | Spacer<br>(6GT2 690-0AK00)  | Spacer<br>(6GT2 690-0AK00)  | Spacer<br>(6GT2 690-0AL00)  | Spacer<br>(6GT2 690-0AL00)   | Spacer<br>(6GT2 690-0AL00)   |














**Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)**

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| <b>RF200 Family Matrix</b><br><br>13.56 MHz<br>Passive Tags<br><br>Operational temperature range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) rating   | <b>Antennas</b>  | <b>D423</b><br>6GT2 600-4AA00<br>2 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 30 x 8<br>IP68/ IPx9K | <b>D425</b><br>6GT2 600-4AG00<br>2 kbyte FRAM<br><br>-40°C to 125°C<br>Ø 24 x 10<br>IP68/ IPx9K | <b>D525</b><br>6GT2 600-5AG00<br>8 kbyte FRAM<br><br>-40°C to 125°C<br>Ø 24 x 10<br>IP68/ IPx9K | <b>D428</b><br>6GT2 600-4AK00-0AX0<br>2 kbyte FRAM<br><br>-40°C to 125°C<br>Ø 24 x 20<br>IP68/ IPx9K | <b>D528</b><br>6GT2600-5AK00<br>8 kbyte FRAM<br><br>-40°C to 125°C<br>Ø 24 x 20<br>IP68/ IPx9K | <b>D139</b><br>6GT2 600-0AA10<br>112 byte EEPROM<br><br>-40°C to 220°C<br>Ø 85 x 15<br>IP68/IPx9K | <b>D339</b><br>6GT2600-3AA10<br>992 byte EEPROM<br><br>-40°C to 220°C<br>Ø 85 x 15<br>IP68/IPx9K |
|---|--|---|---|--|---|---|--|---|
| <b>RF210R/ RF210M</b><br>6GT2 821-1AC10, RS422<br>6GT2 821-1AC32 / -1BC32, IO-Link*<br>6GT2 823-0AA00, Handheld (RS422)<br>                            | <b>Integrated</b><br><br>M18 x 71  | 2-10/ 12<br>(0,08-0.39/ 0.47)   | 1-6/ 7<br>(0.04-0.24/ 0.28)   | 1-6/ 7<br>(0.04-0.24/ 0.28)  | 1-10/ 11<br>(0.04-0.39/ 0.43)   | 1-10/ 11<br>(0.04-0.39/ 0.43)   |  |   |
| <b>RF220R</b><br>6GT2 821-2AC10, RS422<br>6GT2 821-2AC32 / -2BC32, IO-Link*<br>  | <b>Integrated</b><br><br>M30 x 71  | 2-24/ 28<br>(0,08-0.95/ 1.1)  | 1-11/ 13<br>(0.04-0.43/ 0.51)   | 1-11/ 13<br>(0.04-0.43/ 0.51)  | 1-18/ 21<br>(0.04-0.71/ 0.83)   | 1-15/ 20<br>(0.04-0.59/ 0.79)   |  |   |
| <b>RF240R</b><br>6GT2 821-4AC10, RS422<br>6GT2 821-4AC40, RS232 (ASCII)<br>6GT2821-4AC32 / -4BC32, IO-Link*<br>  | <b>Integrated</b><br><br>50 x 50 x 30  | 2-35/ 40<br>(0.08-1.37/ 1.57)   | 1-15/ 17<br>(0.04-0.59/ 0.67)   | 1-15/ 17<br>(0.04-0.59/ 0.67)  | 1-30/ 34<br>(0.04-1.18/ 1.34)   | 1-30/ 35<br>(0.04-1.18/ 1.38)   |  |   |
| <b>RF250R ANT 1</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1CB00, ANT 1<br>         | <br>75 x 75 x 20  | 2-35/ 45<br>(0.08-1.37/ 1.77)   | 2-25/ 30<br>(0.08-0.98/ 1.18)   | 2-25/ 30<br>(0.08-0.98/ 1.18)  | 2-40/ 50<br>(0.08-1.57/ 1.97)   | 2-40/ 45<br>(0.08-1.57/ 1.77)   | 5-90/ 105<br>(0.2-3.54/ 4.13)  | 2-85/ 100<br>(0.08-3.35/ 3.94)  |
| <b>RF250R ANT 3</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1CD40-0AX0, ANT 3<br>    | <br>28 x 50 x 10  | 0-24/ 30<br>(0-0.95/ 1.18)  | 0-12/ 20<br>(0-0.47/ 0.79)  | 1-12/ 20<br>(0.04-0.47/ 0.79)  | 1-20/ 32<br>(0.04-0.79/ 1.26)   | 1-20/ 25<br>(0.04-0.79/ 0.98)   |  |   |
| <b>RF250R ANT 3S</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1CD60-0AX0, ANT 3S<br> | <br>28 x 50 x 10 |   |   |  |   |   |  |   |
| <b>RF250R ANT 8</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1CF10, ANT 8<br>       | <br>Ø8 x 38     |   |   |  |   |   |  |   |
| <b>RF250R ANT 12</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1DC10, ANT 12**<br>   | <br>Ø12 x 40    |   | 0-8/ 10<br>(0.0-0.31/ 0.39)   | 1-8/ 10<br>(0.04-0.31/ 0.39)   | 1-8/ 12<br>(0.04-0.31/ 0.47)  | 1-8/ 12<br>(0.04-0.31/ 0.47)  |  |   |
| <b>Accessories</b>  |  | Mounting cover<br>(6GT2 690-0AE00)  |   |  |   |   | Spacer<br>(6GT2 690-0AA00)<br>Mount for quick tag<br>exchange<br>(6GT2 690-0AH00 - long)<br>(6GT2 690-0AH10 - short)   | Spacer<br>(6GT2 690-0AA00)<br>Mount for quick tag<br>exchange<br>(6GT2 690-0AH00 - long)<br>(6GT2 690-0AH10 - short)  |

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

















| <b>RF200 Family Matrix</b><br><br>13.56 MHz<br>Passive Tags<br><br>Operational temperature range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) rating | <b>Antennas</b>  | <b>D423</b><br>6GT2 600-4AA00<br>2 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 30 x 8<br>IP68/ IPx9K | <b>D425</b><br>6GT2 600-4AG00<br>2 kbyte FRAM<br><br>-40°C to 125°C<br>Ø 24 x 10<br>IP68/ IPx9K | <b>D525</b><br>6GT2 600-5AG00<br>8 kbyte FRAM<br><br>-40°C to 125°C<br>Ø 24 x 10<br>IP68/ IPx9K | <b>D428</b><br>6GT2 600-4AK00-0AX0<br>2 kbyte FRAM<br><br>-40°C to 125°C<br>Ø 24 x 20<br>IP68/ IPx9K | <b>D528</b><br>6GT2600-5AK00<br>8 kbyte FRAM<br><br>-40°C to 125°C<br>Ø 24 x 20<br>IP68/ IPx9K | <b>D139</b><br>6GT2 600-0AA10<br>112 byte EEPROM<br><br>-40°C to 220°C<br>Ø 85 x 15<br>IP68/IPx9K | <b>D339</b><br>6GT2600-3AA10<br>992 byte EEPROM<br><br>-40°C to 220°C<br>Ø 85 x 15<br>IP68/IPx9K |
|---|--|---|---|--|---|---|--|---|
| <b>RF250R ANT 18</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1DA10, ANT 18**                  | <br><br>Ø18 x 40 | 1-15/ 18<br>(0.04-0.59/0.71)  | 1-11/ 16<br>(0.04-0.43/0.63)  | 1-11/ 16<br>(0.04-0.43/0.63)   | 1-18/ 25<br>(0.04-0.71/0.98)  | 1-15/ 20<br>(0.04-0.59/0.79)  |  |   |
| <b>RF250R ANT 30</b><br>6GT2 821-5AC10, RS422<br>6GT2 821-5AC40, RS232 (ASCII)<br>6GT2821-5AC32 / -5BC32, IO-Link*<br>6GT2 398-1DD10, ANT 30                    | <br><br>Ø30 x 40 | 0-18/ 26<br>(0-0.71/1.02)   | 1-12/ 20<br>(0.04-0.47/0.79)  | 1-12/ 20<br>(0.04-0.47/0.79)   | 1-20/ 32<br>(0.04-0.79/1.26)  | 1-20/ 25<br>(0.04-0.79/0.98)  |  |   |
| <b>RF260R</b><br>6GT2 821-6AC10, RS422<br>6GT2 821-6AC40, RS232 (ASCII)<br>6GT2 821-6AC32 / -6BC32, IO-Link*  | <br><b>Integrated</b><br>75 x 75 x 41   | 2-40/ 45<br>(0.08-1.57/1.77)  |   |  | 2-40/ 45<br>(0.08-1.57/1.77)  | 2-35/ 40<br>(0.08-1.38/1.57)  | 2-80/ 110<br>(0.08-3.15/4.33)  | 5-65/ 80<br>(0.20-2.56/3.15)  |
| <b>RF280R</b><br>6GT2 821-8AC10, RS422<br>6GT2 821-8AC40, RS232 (ASCII)   | <br><b>Integrated</b><br>160 x 96 x 41  | 5-60/ 70<br>(0.20-2.36/2.76)  | 2-30/ 40<br>(0.08-1.18/1.57)  | 2-30/ 40<br>(0.08-1.18/1.57)   | 2-60/ 88<br>(0.08-2.36/3.46)  | 2-60/ 85<br>(0.08-2.36/3.35)  | 5-150/ 190<br>(0.20-5.91/7.48)   | 5-150/ 170<br>(0.20-5.91/6.69)  |
| <b>Accessories</b>  |  | Mounting cover<br>(6GT2 690-0AE00)  |   |  |   |   | Spacer<br>(6GT2 690-0AA00)<br>Mount for quick tag<br>exchange<br>(6GT2 690-0AH00 - long)<br>(6GT2 690-0AH10 - short)   | Spacer<br>(6GT2 690-0AA00)<br>Mount for quick tag<br>exchange<br>(6GT2 690-0AH00 - long)<br>(6GT2 690-0AH10 - short)  |

\* not with Tags D5xx

\*\* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC10 (ANT12) or 6GT2398-1DA00 (ANT18)

**Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)**

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| <b>RF200 Family Matrix</b><br><br>13.56 MHz<br>Passive Tags<br><br>Operational temperature range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) rating  | <b>Antennas</b>   | <b>D423</b><br>6GT2 600-4AA00<br>2 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø 30 x 8<br>IP68/ IPx9K | <b>D425</b><br>6GT2 600-4AG00<br>2 kbyte FRAM<br><br><br><br>-40°C to 125°C<br>Ø 24 x 10<br>IP68/ IPx9K | <b>D525</b><br>6GT2 600-5AG00<br>8 kbyte FRAM<br><br><br><br>-40°C to 125°C<br>Ø 24 x 10<br>IP68/ IPx9K | <b>D428</b><br>6GT2 600-4AK00-0AX0<br>2 kbyte FRAM<br><br><br><br>-40°C to 125°C<br>Ø 24 x 20<br>IP68/ IPx9K | <b>D528</b><br>6GT2600-5AK00<br>8 kbyte FRAM<br><br><br><br>-40°C to 125°C<br>Ø 24 x 20<br>IP68/ IPx9K | <b>D139</b><br>6GT2 600-0AA10<br>112 byte EEPROM<br><br><br><br>-40°C to 220°C<br>Ø 85 x 15<br>IP68/IPx9K | <b>D339</b><br>6GT2600-3AA10<br>992 byte EEPROM<br><br><br><br>-40°C to 220°C<br>Ø 85 x 15<br>IP68/IPx9K |                                |
|--|---|---|---|--|---|---|--|---|--------------------------------|
| <b>RF285R</b><br>6GT2821-7AC12, RS232<br><br><br><br><b>Accessory:</b><br>Set for top rail mounting<br>6GK5798-8ML00-0AB3         | <b>ANT D1</b><br><br>6GT2 698-5AC00<br>75 x 75 x 20        | 10-60/85<br>(0.39-2.36/ 3.35)   |   |  | 0-55/80<br>(0-2.17/ 3.15)   | 0-55/80<br>(0-2.17/ 3.15)   | 5-160/220<br>(0.20-6.30/ 8.66)   | 5-130/170<br>(0.20-5.12/ 6.69)  |                                |
|  | <b>ANT D5</b><br><br>6GT2 698-5AA10<br>380 x 380 x 110     |   |   |  |   |   |  | 0-350/450<br>(0-13.78/ 17.72)   | 0-280/350<br>(0-11.02/ 13.78)  |
|  | <b>ANT D6</b><br><br>6GT2 698-5AB00<br>580 x 480 x 110     |   |   |  |   |   |  | 0-450/550<br>(0-17.72/ 21.65)   | 0-350/450<br>(0-13.78/ 17.72)  |
| <b>RF290R</b><br>6GT2 821-0AC12, RS232, RS422<br><br><br><br><b>Accessory:</b><br>Set for top rail mounting<br>6GK5798-8ML00-0AB3 | <b>ANT D1</b><br><br>6GT2 698-5AC00<br>75 x 75 x 20        | 10-60/85<br>(0.39-2.36/ 3.35)   |   |  | 0-55/ 80<br>(0-2.17/ 3.15)  | 0-55/ 80<br>(0-2.17/ 3.15)  | 5-160/ 220<br>(0.20-6.30/ 8.66)  | 5-130/170<br>(0.20-5.12/ 6.69)  |                                |
|  | <b>ANT D5</b><br><br>6GT2 698-5AA10<br>380 x 380 x 110     |   |   |  |   |   |  | 0-400/ 500<br>(0-15.75/ 19.69)  | 0-300/ 380<br>(0-11.81/ 15.00) |
|  | <b>ANT D6</b><br><br>6GT2 698-5AB00<br>580 x 480 x 110    |   |   |  |   |   |  | 0-500/ 600<br>(0-19.69/ 23.62)  | 0-400/ 480<br>(0-15.75/ 18.9)  |
|  | <b>ANT D10</b><br><br>6GT2 698-5AF00<br>1150 x 365 x 115 |   |   |  |   |   |  | 0-450/ 550<br>(0-17.72/ 21.65)  | 0-300/ 380<br>(0-11.81/ 15.00) |
| <b>Accessories</b>   | Covering hood<br>for ANT D6<br>(6GT2 690-0AD00)   | Mounting cover<br>(6GT2 690-0AE00)  |   |  |   |   | Spacer<br>(6GT2 690-0AA00)<br>Mount for quick tag<br>exchange<br>(6GT2 690-0AH00 - long)<br>(6GT2 690-0AH10 - short)   | Spacer<br>(6GT2 690-0AA00)<br>Mount for quick tag<br>exchange<br>(6GT2 690-0AH00 - long)<br>(6GT2 690-0AH10 - short)  |                                |

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

## PROFINET & OPC UA & Ethernet/IP & TCP/IP

### Communication Modules



A maximum of  
**1 reader at RF185C,**  
**2 readers at RF186C/CI,**  
**4 readers at RF188C/CI**  
**of RF2x0R may be connected**

2 m = 6GT2 891-4FH20      5 m = 6GT2 891-4FH50  
 10 m = 6GT2 891-4FN10    20 m = 6GT2 891-4FN20  
 50 m = 6GT2 891-4FN50\*

Reader connector 90° angled:  
 2 m = 6GT2 891-4JH20      5 m = 6GT2 891-4JH50  
 10 m = 6GT2 891-4JN10

### Additional IOs



**RF18xCI to sensor**

Sensor cable from  
 0.5 to 15 m available  
 (e.g. 2 m = 6XV1801-2CH20)

### Types of IO-Link IO module

IO-extension module  
 6ES7 14..... (up to 8xDI + 8xDO)

See page 76 for detailed information

Or one  
**Standard sensor**

Or one  
**Actor**

\* Cable improper for RF290R usage due to length limitation of 20 m

## Reader

powered through connection cable



- ANT 1** (6GT2 398-1CB00)
- ANT 3** (6GT2 398-1CD40-0AX0)
- ANT 3S** (6GT2 398-1CD60-0AX0)
- ANT 8** (6GT2 398-1CF10)
- ANT 12** (6GT2398-1DC10)
- ANT 18** (6GT2398-1DA10)
- ANT 30** (6GT2398-1DD10)

- ANT D1** (6GT2 698-5AC00)
- ANT D5** (6GT2 698-5AA10)
- ANT D6** (6GT2 698-5AB00)
- ANT D10** (6GT2 698-5AF00)

Opt. Splitter  
 w/ D5, D6 only  
 (6GT2 690-0AC00)

## Tags

**D100** (6GT2 600-0AD10)  
**D200** (6GT2 600-1AD00-0AX0)  
**D400** (6GT2 600-4AD00)

**D421** (6GT2 600-4AE00)  
**D521** (6GT2 600-5AE00)

**D422** (6GT2 600-4AF00)  
**D522** (6GT2 600-5AF00)  
**D522** (6GT2 600-5AF00-0AX0)

**D124** (6GT2 600-0AC10)  
**D324** (6GT2 600-3AC00)  
**D424** (6GT2 600-4AC00)  
**D524** (6GT2 600-5AC00)

**D423** (6GT2 600-4AA00)

**D425** (6GT2 600-4AG00)  
**D525** (6GT2 600-4AB00)

**D127** (6GT2 600-4AF00)  
**D117** (6GT2 398-1CF00)

**D428** (6GT2 600-4AK00-0AX0)  
**D528** (6GT2600-5AK00)

**D126** (6GT2 600-0AE00)  
**D426** (6GT2 600-4AH00)  
**D526** (6GT2 600-5AH00)

**D139** (6GT2 600-0AA10)  
**D339** (6GT2 600-3AA10)

**D160** (6GT2 600-0AB10)  
**D460** (6GT2 600-4AB00)  
**D560** (6GT2600-5AB00)

**D165** (6GT2 600-1AB00-0AX0)  
**D261** (6GT2 600-1AA01-0AX0)

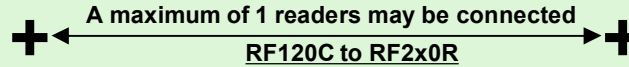


## SIMATIC PLC S7-1200



**RF120C**  
6GT2 002-0LA00

Up to 3 x RF120C modules  
per S7-1200 rack



2 m = 6GT2 091-4LH20      5 m = 6GT2 091-4LH50  
10 m = 6GT2 091-4LN10

And extension cables:

2 m = 6GT2 891-4FH20      5 m = 6GT2 891-4FH50  
10 m = 6GT2 891-4FN10      20 m = 6GT2 891-4FN20  
50 m = 6GT2 891-4FN50\*

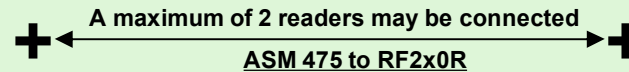
2 m = 6GT2 891-4JH20 Reader connector 90° angled  
5 m = 6GT2 891-4JH50 Reader connector 90° angled  
10 m = 6GT2 891-4JN10 Reader connector 90° angled

## SIMATIC PLC S7-300 Rack or S7-400 via ET 200M (DP-V1/PN-IO)



**ASM 475 + Front connector**  
(6GT2 002-0GA10) + (6ES7 392-1AJ00-0AA0)

**Accessories:**  
Connecting element (6ES7 390-5AA00-0AA0)  
Terminal element (6ES7 390-5BA00-0AA0)



2 m = 6GT2 891-4EH20      5 m = 6GT2 891-4EH50

And extension cables:

2 m = 6GT2 891-4FH20      5 m = 6GT2 891-4FH50  
10 m = 6GT2 891-4FN10      20 m = 6GT2 891-4FN20  
50 m = 6GT2 891-4FN50\*

2 m = 6GT2 891-4JH20 Reader connector 90° angled  
5 m = 6GT2 891-4JH50 Reader connector 90° angled  
10 m = 6GT2 891-4JN10 Reader connector 90° angled

## ET 200pro via PROFIBUS or PROFINET or S7 PLC

ET 200pro PROFIBUS DP-V1  
Interface module

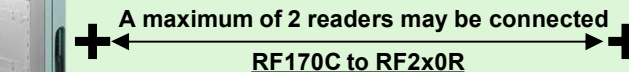
ET 200pro PROFINET  
Interface module

ET 200pro PROFINET  
CPU module

Up to 9 x 170C  
modules per  
ET 200pro rack



**RF170C**  
Communication module  
(6GT2002-0HD01)  
Connection block  
(6GT2002-1HD01)



2 m = 6GT2 891-4FH20      5 m = 6GT2 891-4FH50  
10 m = 6GT2 891-4FN10      20 m = 6GT2 891-4FN20  
50 m = 6GT2 891-4FN50\*

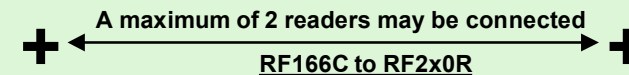
Reader connector 90° angled

2 m = 6GT2 891-4JH20      5 m = 6GT2 891-4JH50  
10 m = 6GT2 891-4JN10

## PROFIBUS



**RF166C (DP-V1)**  
Communication Module  
(6GT2 002-0EE20)



2 m = 6GT2 891-4FH20      5 m = 6GT2 891-4FH50  
10 m = 6GT2 891-4FN10      20 m = 6GT2 891-4FN20  
50 m = 6GT2 891-4FN50\*

Reader connector 90° angled

2 m = 6GT2 891-4JH20      5 m = 6GT2 891-4JH50  
10 m = 6GT2 891-4JN10

\* Cable improper for RF290R usage due to length limitation of 20 m

## Reader powered through connection cable



**RF210R**  
(6GT2 821-1AC10)



**RF210M**  
(6GT2 823-0AA00)



**RF220R**  
(6GT2 821-2AC10)



**RF240R**  
(6GT2 821-4AC10)



**RF250R**  
(6GT2 821-5AC10)



**RF260R**  
(6GT2 821-6AC10)



**RF280R**  
(6GT2 821-8AC10)



**RF290R**  
(6GT2 821-0AC12)

- ANT 1**  
(6GT2 398-1CB00)
- ANT 3**  
(6GT2 398-1CD40-0AX0)
- ANT 3S**  
(6GT2 398-1CD60-0AX0)
- ANT 8**  
(6GT2 398-1CF10)
- ANT 12**  
(6GT2398-1DC10)
- ANT 18**  
(6GT2398-1DA10)
- ANT 30**  
(6GT2398-1DD10)

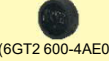
- ANT D1**  
(6GT2 698-5AC00)
- ANT D5**  
(6GT2 698-5AA10)
- ANT D6**  
(6GT2 698-5AB00)
- ANT D10**  
(6GT2 698-5AF00)

Opt. Splitter  
w/ D5, D6 only  
(6GT2 690-0AC00)

## Tags



**D100** (6GT2 600-0AD10)  
**D200** (6GT2 600-1AD00-0AX0)  
**D400** (6GT2 600-4AD00)



**D421** (6GT2 600-4AE00)  
**D521** (6GT2 600-5AE00)



**D422** (6GT2 600-4AF00)  
**D522** (6GT2 600-5AF00)  
**D522** (6GT2 600-5AF00-0AX0)



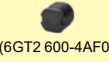
**D124** (6GT2 600-0AC10)  
**D324** (6GT2 600-3AC00)  
**D424** (6GT2 600-4AC00)  
**D524** (6GT2 600-5AC00)



**D423** (6GT2 600-4AA00)



**D425** (6GT2 600-4AG00)  
**D525** (6GT2 600-4AB00)



**D127** (6GT2 600-4AF00)  
**D117** (6GT2 398-1CF00)



**D428** (6GT2 600-4AK00-0AX0)  
**D528** (6GT2600-5AK00)



**D126** (6GT2 600-0AE00)  
**D426** (6GT2 600-4AH00)  
**D526** (6GT2 600-5AH00)



**D139** (6GT2 600-0AA10)  
**D339** (6GT2 600-3AA10)

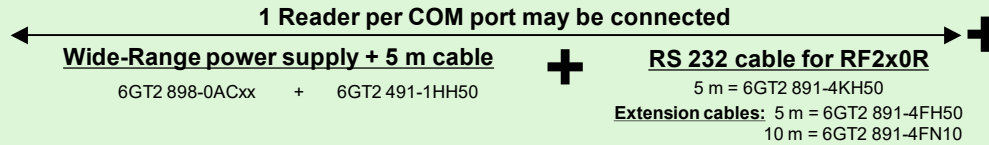


**D160** (6GT2 600-0AB10)  
**D460** (6GT2 600-4AB00)  
**D560** (6GT2600-5AB00)



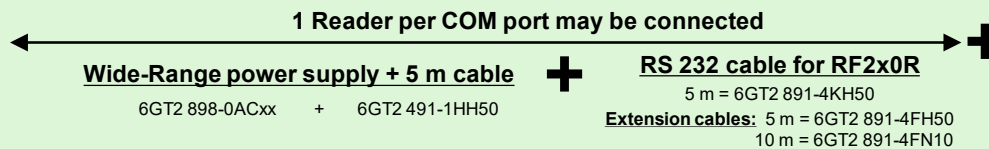
**D165** (6GT2 600-1AB00-0AX0)  
**D261** (6GT2 600-1AA01-0AX0)

## RS232 / ASCII



Simple text based protocol

## RS232



Binary based protocol or Scanmode

## Reader

with external power supply at Y-cable



- ANT 1**  
(6GT2 398-1CB00)
- ANT 3**  
(6GT2 398-1CD40-0AX0)
- ANT 3S**  
(6GT2 398-1CD60-0AX0)
- ANT 8**  
(6GT2 398-1CF10)
- ANT 12**  
(6GT2398-1DC10)
- ANT 18**  
(6GT2398-1DA10)
- ANT 30**  
(6GT2398-1DD10)

## Tags

- D100** (6GT2 600-0AD10)
- D200** (6GT2 600-1AD00-0AX0)
- D400** (6GT2 600-4AD00)
- D421** (6GT2 600-4AE00)
- D521** (6GT2 600-5AE00)
- D422** (6GT2 600-4AF00)
- D522** (6GT2 600-5AF00)
- D522** (6GT2 600-5AF00-0AX0)
- D124** (6GT2 600-0AC10)
- D324** (6GT2 600-3AC00)
- D424** (6GT2 600-4AC00)
- D524** (6GT2 600-5AC00)
- D423** (6GT2 600-4AA00)
- D425** (6GT2 600-4AG00)
- D525** (6GT2 600-4AB00)
- D127** (6GT2 600-4AF00)
- D117** (6GT2 398-1CF00)
- D428** (6GT2 600-4AK00-0AX0)
- D528** (6GT2600-5AK00)
- D126** (6GT2 600-0AE00)
- D426** (6GT2 600-4AH00)
- D526** (6GT2 600-5AH00)
- D139** (6GT2 600-0AA10)
- D339** (6GT2 600-3AA10)
- D160** (6GT2 600-0AB10)
- D460** (6GT2 600-4AB00)
- D560** (6GT2600-5AB00)
- D165** (6GT2 600-1AB00-0AX0)
- D261** (6GT2 600-1AA01-0AX0)

## Reader

with external power supply at Y-cable



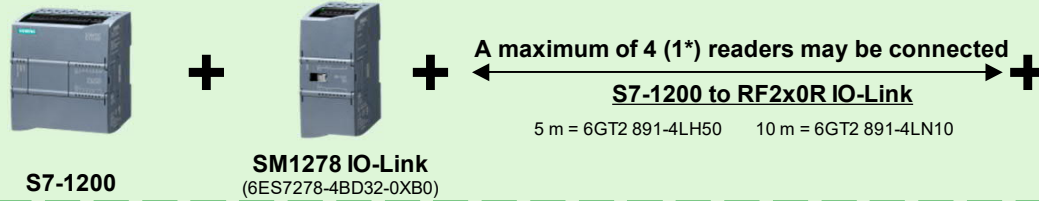
Opt. Splitter  
w/ D5, D6 only  
(6GT2 690-0AC00)

- ANT D1**  
(6GT2 698-5AC00)
- ANT D5**  
(6GT2 698-5AA10)
- ANT D6**  
(6GT2 698-5AB00)
- ANT D10**  
(6GT2 698-5AF00)

**optional antenna cables**  
10 m = 6GT2691-0CN10  
7.2 m extension = 6GT2691-0DH72

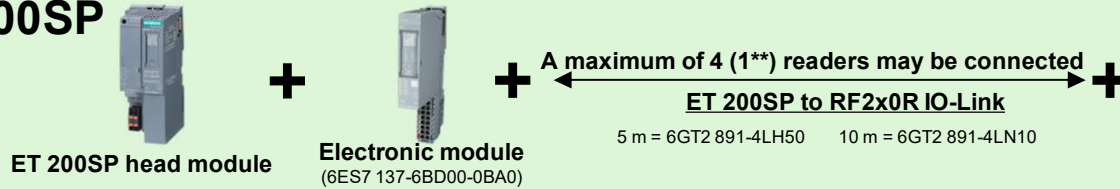
\*do not use with D10 ; do not use with Splitter

## IO-Link: S7-1200



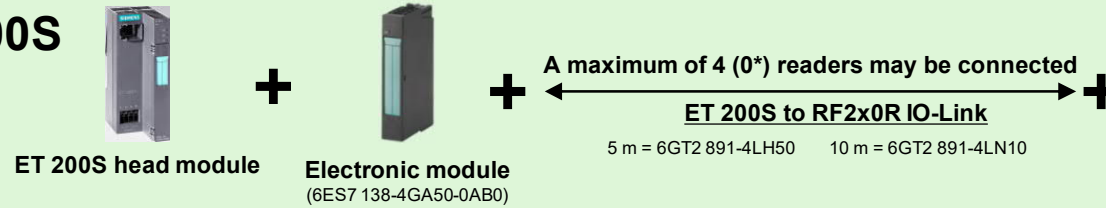
## IO-Link: ET 200SP

via PROFIBUS  
or PROFINET  
or S7 PLC



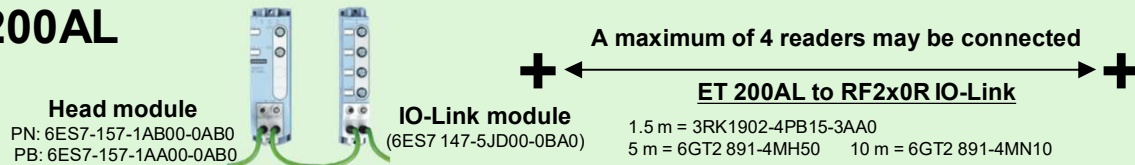
## IO-Link: ET 200S

via PROFIBUS  
or PROFINET  
or S7 PLC



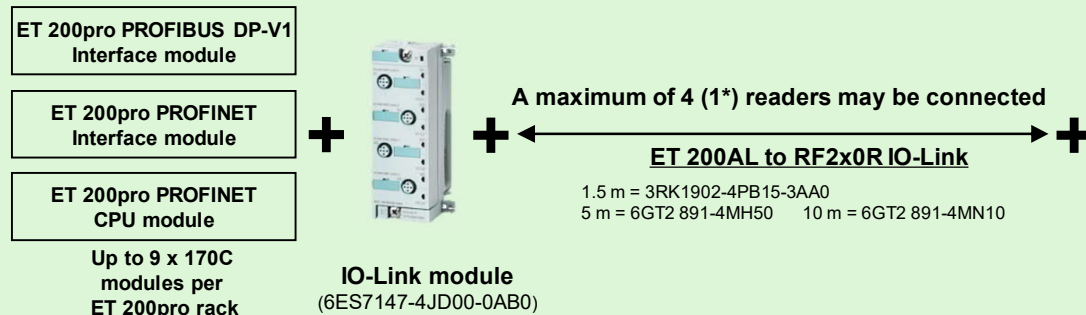
## IO-Link: ET 200AL

via PROFIBUS  
or PROFINET



## IO-Link: ET 200pro

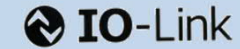
via PROFIBUS  
or PROFINET  
or S7 PLC



\*) for IO-Link reader of type 32 Byte: Some IO-Link Master permit only one or none reader per module  
\*\*) in case of using a PROFIBUS head module at ET 200SP, only one 32 Byte reader may be connected

## Reader

powered through connection cable



**RF210R IO-Link**  
6GT2 821-1AC32 (8 Byte)  
6GT2 821-1BC32 (32 Byte)



**RF220R IO-Link**  
6GT2 821-2AC32 (8 Byte)  
6GT2 821-2BC32 (32 Byte)



**RF240R IO-Link**  
6GT2 821-4AC32 (8 Byte)  
6GT2 821-4BC32 (32 Byte)



**RF250R IO-Link**  
6GT2 821-5AC32 (8 Byte)  
6GT2 821-5BC32 (32 Byte)

- ANT 1**  
(6GT2 398-1CB00)
- ANT 3**  
(6GT2 398-1CD40-0AX0)
- ANT 3S**  
(6GT2 398-1CD60-0AX0)
- ANT 8**  
(6GT2 398-1CF10)
- ANT 12**  
(6GT2398-1DC10)
- ANT 18**  
(6GT2398-1DA10)
- ANT 30**  
(6GT2398-1DD10)

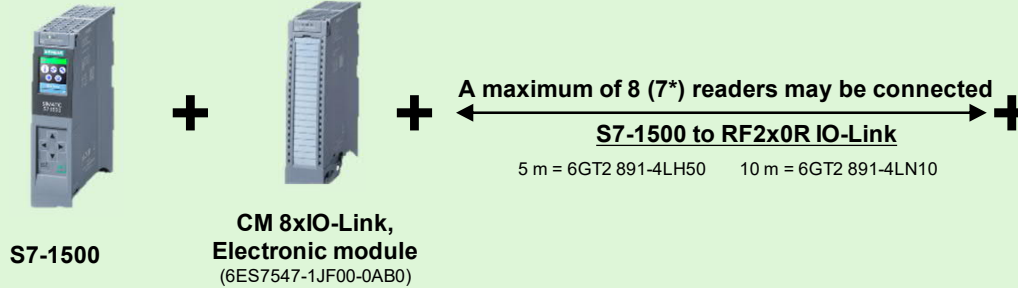


**RF260R IO-Link**  
6GT2 821-6AC32 (8 Byte)  
6GT2 821-6BC32 (32 Byte)

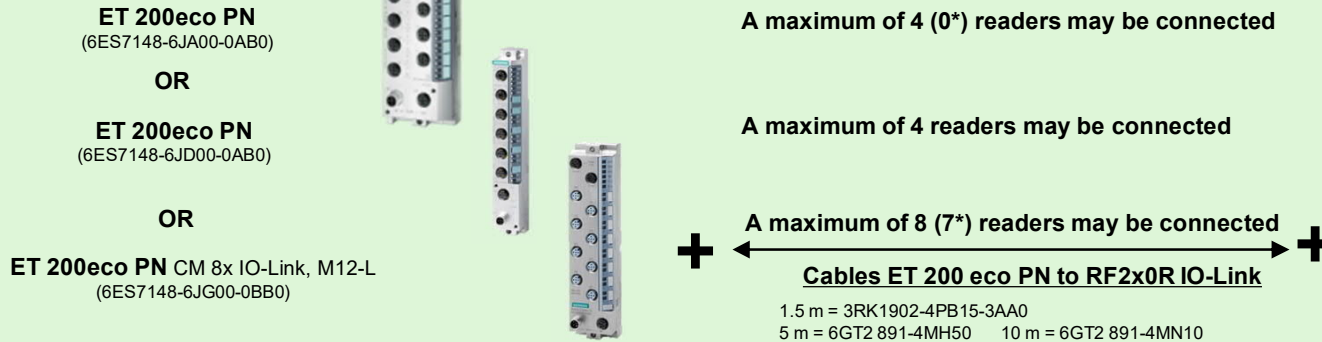
## Tags

- D100** (6GT2 600-0AD10)
- D200** (6GT2 600-1AD00-0AX0)
- D400** (6GT2 600-4AD00)
- D421** (6GT2 600-4AE00)
- D422** (6GT2 600-4AF00)
- D124** (6GT2 600-0AC10)
- D324** (6GT2 600-3AC00)
- D424** (6GT2 600-4AC00)
- D423** (6GT2 600-4AA00)
- D425** (6GT2 600-4AG00)
- D127** (6GT2 600-4AF00)
- D117** (6GT2 398-1CF00)
- D428** (6GT2 600-4AK00-0AX0)
- D126** (6GT2 600-0AE00)
- D426** (6GT2 600-4AH00)
- D139** (6GT2 600-0AA10)
- D339** (6GT2 600-3AA10)
- D160** (6GT2 600-0AB10)
- D460** (6GT2 600-4AB00)
- D165** (6GT2 600-1AB00-0AX0)
- D261** (6GT2 600-1AA01-0AX0)

## IO-Link: S7-1500



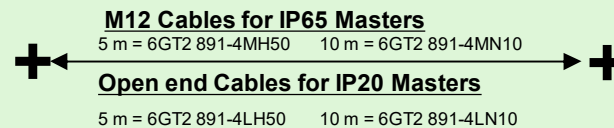
## IO-Link: PROFINET



## IO-Link: Other Master

| Vendors of IO-Link Master Devices | Central Controller | Profibus | Profinet | Interbus | EtherCat | Powerlink | Ethernet/IP | Modbus TCP | SERCOS III | CC-Link | CANopen | DeviceNet | AS-Interface | USB |
|-----------------------------------|--------------------|----------|----------|----------|----------|-----------|-------------|------------|------------|---------|---------|-----------|--------------|-----|
| B&R                               | X                  | X        | X        |          | X        | X         | X           | X          |            | X       | X       |           |              |     |
| Balluff                           |                    | X        | X        | X        |          | X         |             |            |            | X       | X       |           |              | X   |
| Beckhoff                          | X                  | X        | X        | X        | X        | X         | X           | X          | X          | X       | X       |           |              |     |
| Bosch Rexroth                     | X                  | X        | X        |          |          |           |             | X          |            |         |         |           |              |     |
| Comtrol                           |                    |          | X        |          |          | X         | X           |            |            |         |         |           |              |     |
| ifm electronic GmbH               |                    | X        | X        | X        | X        |           |             |            |            |         |         |           | X            | X   |
| Mitsubishi Electric               | X                  |          |          |          |          |           |             |            |            |         |         |           |              |     |
| Murrelektronik                    |                    | X        | X        |          |          |           |             |            |            |         |         |           |              |     |
| OMRON Corporation                 | X                  |          |          |          | X        |           |             |            |            |         |         |           |              |     |
| PhoenixContact                    | X                  | X        | X        | X        | X        | X         | X           | X          |            |         |         |           |              |     |
| Siemens AG                        | X                  | X        | X        |          |          |           |             |            |            |         |         |           |              |     |
| TMG TE GmbH                       |                    |          |          |          |          |           |             |            |            |         |         |           |              | X   |
| WAGO                              | X                  | X        | X        | X        | X        | X         | X           | X          |            | X       | X       |           |              |     |
| Wenglor sensoric GmbH             |                    | X        |          |          |          |           |             |            |            |         |         |           |              | X   |

According to [www.io-link.com](http://www.io-link.com)  
see competency-matrix for all available offers



\*) for IO-Link reader of type 32 Byte:  
Reduced number of reader per module for some types of IO-Link Master

## Reader powered through connection cable



**RF210R IO-Link**  
6GT2 821-1AC32 (8 Byte)  
6GT2 821-1BC32 (32 Byte)



**RF220R IO-Link**  
6GT2 821-2AC32 (8 Byte)  
6GT2 821-2BC32 (32 Byte)



**RF240R IO-Link**  
6GT2 821-4AC32 (8 Byte)  
6GT2 821-4BC32 (32 Byte)



**RF250R IO-Link**  
6GT2 821-5AC32 (8 Byte)  
6GT2 821-5BC32 (32 Byte)

- ANT 1** (6GT2 398-1CB00)
- ANT 3** (6GT2 398-1CD40-0AX0)
- ANT 3S** (6GT2 398-1CD60-0AX0)
- ANT 8** (6GT2 398-1CF10)
- ANT 12** (6GT2398-1DC10)
- ANT 18** (6GT2398-1DA10)
- ANT 30** (6GT2398-1DD10)

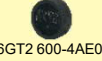


**RF260R IO-Link**  
6GT2 821-6AC32 (8 Byte)  
6GT2 821-6BC32 (32 Byte)

## Tags



**D100** (6GT2 600-0AD10)  
**D200** (6GT2 600-1AD00-0AX0)  
**D400** (6GT2 600-4AD00)



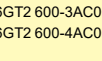
**D421** (6GT2 600-4AE00)



**D422** (6GT2 600-4AF00)



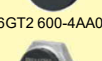
**D124** (6GT2 600-0AC10)



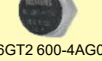
**D324** (6GT2 600-3AC00)



**D424** (6GT2 600-4AC00)



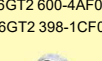
**D423** (6GT2 600-4AA00)



**D425** (6GT2 600-4AG00)



**D127** (6GT2 600-4AF00)



**D117** (6GT2 398-1CF00)



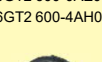
**D428** (6GT2 600-4AK00-0AX0)



**D126** (6GT2 600-0AE00)



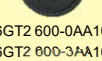
**D426** (6GT2 600-4AH00)



**D139** (6GT2 600-0AA10)



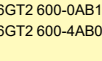
**D339** (6GT2 600-3AA10)



**D160** (6GT2 600-0AB10)


















**D460** (6GT2 600-4AB00)



**D165** (6GT2 600-1AB00-0AX0)


















**D261** (6GT2 600-1AA01-0AX0)

| <b>RF300 Family Matrix<br/>(RF300 Tags)</b><br><br>13.56 MHz<br>Passive Tags<br><br>Operational Temperature Range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) Rating  | <b>Antennas</b>   | <b>Suitable for<br/>Dynamic<br/>Operation</b> | <b>RF320T</b><br>6GT2 800-1CA00<br>20 byte<br>EEPROM<br><br><br>-40°C to 140°C<br>Ø 27 x 4<br>IP67/IPX9K | <b>RF330T</b><br>6GT2 800-5BA00<br>20 byte EEPROM<br>32 kbyte FRAM<br><br><br>-40°C to 100°C<br>Ø 30 x 8<br>IP68/IPX9K | <b>RF340T</b><br>20 byte EEPROM +<br>6GT2 800-4BB00<br>8 kbyte FRAM<br>6GT2 800-5BB00<br>32 kByte FRAM<br><br><br>-40°C to 85°C<br>48 x 25 x 15<br>IP67/IPX9K | <b>RF350T</b><br>6GT2 800-5BD00<br>20 byte EEPROM<br>32 kbyte FRAM<br><br><br>-40°C to 85°C<br>50 x 50 x 20<br>IP68 | <b>RF360T</b><br>20 byte EEPROM +<br>6GT2 800-4AC00<br>8 kbyte FRAM<br>6GT2 800-5AC00<br>32 kbyte FRAM<br><br><br>-40°C to 85°C<br>85.8 x 54.1 x 2.5<br>IP67 | <b>RF370T</b><br>20 Byte EEPROM +<br>6GT2 800-5BE00<br>32 kbyte FRAM<br>6GT2 800-6BE00<br>64 kbyte FRAM<br><br><br>-40°C to 85°C<br>75 x 75 x 41<br>IP68 | <b>RF380T</b><br>6GT2 800-5DA00<br>20 byte EEPROM<br>32 kbyte FRAM<br><br><br>-40°C to 220°C<br>Ø 114 x 83<br>IP68 |
|---|---|---|---|---|--|--|---|---|---|
| <b>RF310R</b><br>RS422<br><br>6GT2801-1BA10<br>6GT2801-1BA10-0AX1 (90° plate)<br>6GT2801-1BA10-0AX2 (Ex)<br>6GT2 801-1BA20-0AX1 (Scanmode)<br><br> | <b>Integrated</b><br><br>55 x 75 x 30   | <b>YES</b>                                    | 1-23/ 26<br>(0.04-0.91/ 1.02)   | 2-18/ 21<br>(0.08-0.71/ 0.83)   | 2-36/ 41<br>(0.08-1.42/ 1.61)  | 2-47/ 53<br>(0.08-1.85/ 2.09)  | 2-60/68<br>(0.08-2.36/ 2.68)  | 2-45/ 60<br>(0.08-1.77/ 2.36)   |   |
| <b>RF340R</b><br>RS422<br><br>6GT2801-2BA10<br>6GT2801-2BA10-0AX2 (Ex)<br><br>   | <b>Integrated</b><br><br>75 x 75 x 41   | <b>YES</b>                                    | 1-20/ 25<br>(0.04-0.79/ 0.98)   | 2-20/ 23<br>(0.08-0.79/ 0.91)   | 2-50/ 58<br>(0.08-1.97/ 2.28)  | 2-60/ 75<br>(0.08-2.36/ 2.95)  | 2-65/ 85<br>(0.08-2.56/ 3.35)   | 5-60/ 80<br>(0.20-2.36/ 3.15)   | 5-80/ 100<br>(0.20-3.15/ 3.94)  |
| <b>RF350R ANT 1</b><br>RS422<br><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1CB00 (ANT 1)<br><br>                                     | <br>75 x 75 x 20   | <b>YES</b>                                    | 1-30/ 37<br>(0.04-1.18/ 1.46)   | 2-25/ 30<br>(0.08-0.98/ 1.18)   | 2-55/ 70<br>(0.08-2.16/ 2.76)  | 2-65/ 85<br>(0.08-2.56/ 3.35)  | 2-75/ 100<br>(0.08-2.95/ 3.94)  | 5-65/ 85<br>(0.20-2.56/ 3.35)   | 5-90/ 110<br>(0.20-3.54/ 4.33)  |
| <b>RF350R ANT 3</b><br>RS422<br><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1CD40-0AX0 (ANT 3)<br><br>                               | <br>28 x 50 x 10  | <b>NO</b>                                     | 1-15 / 18<br>(0.04-0.59/ 0.71)  | 1-16 / 20<br>(0.04-0.63/ 0.79)  | 2-32/ 40<br>(0.08-1.26/ 1.57)  | 2-35/ 42<br>(0.08-1.38/ 1.65)  |   |   |   |
| <b>RF350R ANT 3S</b><br>RS422<br><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1CD60-0AX0 (ANT 3S)<br><br>                            | <br>28 x 50 x 10 | <b>NO</b>                                     |   |   |  |  |   |   |   |
| <b>Accessories</b>  |   |   | Spacer<br>(6GT2 690-0AK00)  | Mounting cover<br>(6GT2 690-0AE00)  |  |  | 20 mm spacer<br>(6GT2 190-0AA00)<br><br>Fixing pocket<br>(6GT2 190-0AB00)   |   | Holder:<br>(short: 6GT2 090-0QA00)<br>(long: 6GT2 090-0QA00-<br>0AX3)<br>Cover for holder:<br>(6GT2 090-0QB00)<br>All Purpose<br>Support<br>(6GT2 590-0QA00)  |

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)




















Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| <b>RF300 Family Matrix (RF300 Tags)</b><br><br>13.56 MHz<br>Passive Tags<br><br>Operational Temperature Range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) Rating                        | <b>Antennas</b>   | <b>Suitable for Dynamic Operation</b> | <b>RF320T</b><br>6GT2 800-1CA00<br>20 byte EEPROM<br><br><br>-40°C to 140°C<br>Ø 27 x 4<br>IP67/IPX9K | <b>RF330T</b><br>6GT2 800-5BA00<br>20 byte EEPROM<br>32 kbyte FRAM<br><br><br>-40°C to 100°C<br>Ø 30 x 8<br>IP68/IPX9K | <b>RF340T</b><br>20 byte EEPROM +<br>6GT2 800-4BB00<br>8 kbyte FRAM<br>6GT2 800-5BB00<br>32 kbyte FRAM<br><br><br>-40°C to 85°C<br>48 x 25 x 15<br>IP67/IPX9K | <b>RF350T</b><br>6GT2 800-5BD00<br>20 byte EEPROM<br>32 kbyte FRAM<br><br><br>-40°C to 85°C<br>50 x 50 x 20<br>IP68 | <b>RF360T</b><br>20 byte EEPROM +<br>6GT2 800-4AC00<br>8 kbyte FRAM<br>6GT2 800-5AC00<br>32 kbyte FRAM<br><br><br>-40°C to 85°C<br>85.8 x 54.1 x 2.5<br>IP67 | <b>RF370T</b><br>20 Byte EEPROM +<br>6GT2 800-5BE00<br>32 kbyte FRAM<br>6GT2 800-6BE00<br>64 kbyte FRAM<br><br><br>-40°C to 85°C<br>75 x 75 x 41<br>IP68 | <b>RF380T</b><br>6GT2 800-5DA00<br>20 byte EEPROM<br>32 kbyte FRAM<br><br><br>-40°C to 220°C<br>Ø 114 x 83<br>IP68 |
|---|---|---------------------------------------|--|---|--|--|---|---|---|
| <b>RF350R ANT 12</b><br>RS422<br><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1DC10 (ANT 12) *<br><br> | <br>Ø12 x 40 | <b>NO</b>                             |  |   |  |  |   |   |   |
| <b>RF350R ANT 18</b><br>RS422<br><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1DA10 (ANT 18) *<br><br> | <br>Ø18 x 40 | <b>NO</b>                             | 0-10/ 13<br>(0-0.39/ 0.51)   | 1-11/ 13<br>(0.04-0.43/ 0.51)   | 0-18/ 22<br>(0.0-0.71/ 0.87)   |  |   |   |   |
| <b>RF350R ANT 30</b><br>RS422<br><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1DD10 (ANT 30)<br><br>   | <br>Ø30 x 40 | <b>NO</b>                             | 0-15/ 20<br>(0-0.59/ 0.79)   | 2-15/ 18<br>(0.08-0.59/ 0.71)   | 1-25/ 30<br>(0.04-0.98/ 1.18)  | 0-35/ 40<br>(0-1.18/ 1.57)   | 2-32/ 38<br>(0.08-1.26/ 1.5)  |   |   |
| <b>RF360R</b><br>Ethernet<br><br>6GT2801-5BA30<br><br>  | <b>Integrated</b><br>141 x 80 x 42  | <b>YES</b>                            | 1-20/ 25<br>(0.04-0.79/ 0.98)  | 2-18/ 23<br>(0.08-0.71/ 0.91)   | 2-50/ 58<br>(0.04-1.97/ 2.28)  | 2-60/ 75<br>(0.08-2.36/ 2.95)  | 2-65/ 85<br>(0.08-2.56/ 3.35)   | 5-60/ 80<br>(0.20-2.36/ 3.15)   | 5-80/ 100<br>(0.20-3.15/ 3.94)  |
| <b>RF380R</b><br>RS422, RS232<br><br>6GT2801-3BA10<br>6GT2801-3BA10-0AX2 (Ex)<br><br>                            | <b>Integrated</b><br>160 x 96 x 41  | <b>YES</b>                            | 2-45/ 60<br>(0.08-1.77/ 2.36)  | 5-45/ 48<br>(0.2-1.77/ 1.89)  | 2-80/ 105<br>(0.08-3.15/ 4.13)   | 2-100/ 125<br>(0.08-3.94/ 4.92)  | 2-120/ 150<br>(0.08-4.72/ 5.91)   | 5-100/ 135<br>(0.20-3.94/ 5.31)   | 5-125/ 160<br>(0.20-4.92/ 6.30)   |
| <b>Accessories</b>  |   |                                       | Spacer<br>(6GT2 690-0AK00)   | Mounting cover<br>(6GT2 690-0AE00)  |  |  | 20 mm spacer<br>(6GT2 190-0AA00)<br><br>Fixing pocket<br>(6GT2 190-0AB00)   |   | Holder:<br>(short: 6GT2 090-0QA00)<br>(long: 6GT2 090-0QA00-0AX3)<br><br>Cover for holder:<br>(6GT2 090-0QB00)<br><br>All Purpose Support<br>(6GT2 590-0QA00)   |

\* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC10 (ANT12) or 6GT2398-1DA00 (ANT18)











### Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| <b>RF300 Family Matrix<br/>(ISO Tags)</b><br><br>13.56 MHz<br>Passive Tags<br><br>Operational Temperature Range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) Rating  | <b>Antennas</b>  | <b>D165</b><br>6GT2 600-1AB00-0AX0<br>112 byte EEPROM<br><br><br><br>-25°C to 85°C<br>86 x 54 x 0.3<br>IP65 | <b>D261</b><br>6GT2 600-1AA01-0AX0<br>256 byte EEPROM<br><br><br><br>-25°C to 85°C<br>55 x 55 x 0.3<br>IP65 | <b>D100</b><br>6GT2 600-0AD10<br>112 byte EEPROM<br><br><br><br>-25°C to 80°C<br>85,6 x 54 x 0.9<br>IP68 | <b>D200</b><br>6GT2 600-1AD00-0AX0<br>256 byte EEPROM<br><br><br><br>-20°C to 60°C<br>85.6 x 54 x 0.8<br>IP67 | <b>D400</b><br>6GT2 600-4AD00<br>2 kbyte FRAM<br><br><br><br>-20°C to 60°C<br>85.6 x 54 x 0.8<br>IP67 | <b>D160</b><br>6GT2 600-0AB10<br>112 byte EEPROM<br><br><br><br>-40°C to 175°C<br>Ø 16 x 3<br>IP68/IPx9K | <b>D460</b><br>6GT2 600-4AB00<br>2 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø 16 x 3<br>IP67/IPx9K |
|---|--|--|---|---|--|--|---|--|
| <b>RF310R</b><br><b>RS422</b><br>6GT2801-1BA10<br>6GT2801-1BA10-0AX1 (90° plate)<br>6GT2801-1BA10-0AX2 (Ex)<br>6GT2 801-1BA20-0AX1 (Scanmode)  | <b>Integrated</b><br><br>55 x 75 x 30  | 2-90/ 102<br>(0.08-3.54/ 4.02)   | 2-74/ 83<br>(0.08-2.91/ 3.27)   | 2-93/ 105<br>(0.08-3.66/ 4.1)   | 2-80/ 90<br>(0.08-3.15/ 3.54)  | 2-104/ 115<br>(0.08-4.09/ 4.53)  | 1-39/ 44<br>(0.04-1.54/ 1.73)   | 1-32/ 38<br>(0.08-1.26/ 1.50)  |
| <b>RF340R</b><br><b>RS422</b><br>6GT2801-2BA10<br>6GT2801-2BA10-0AX2 (Ex)    | <b>Integrated</b><br><br>75 x 75 x 41  | 15-120/ 140<br>(0.59-4.72/ 5.51)   | 15-60/ 70<br>(0.59-2.36/ 2.76)  | 5-110/ 140<br>(0.20-4.33/ 5.51)   | 10-100/ 115<br>(0.39-3.94/ 4.53)   | 2-100/ 130<br>(0.08-3.93/ 5.12)  | 2-35/ 60<br>(0.08-1.38/ 2.36)   | 2-25/ 40<br>(0.08-0.98/ 1.57)  |
| <b>RF350R ANT 1</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1CB00 (ANT 1)                                      | <br>75 x 75 x 20  | 5-100/ 120<br>(0.20-3.94/ 4.72)  | 5-80/ 95<br>(0.20-3.15/ 3.74)   | 5-110/ 140<br>(0.20-4.33/ 5.51)   | 5-95/ 115<br>(0.20-3.74/ 4.53)   | 2-110/ 135<br>(0.08-4.33/ 5.31)  | 2-35/ 60<br>(0.08-1.38/ 2.36)   | 2-32/ 38<br>(0.08-1.26/ 1.50)  |
| <b>RF350R ANT 3</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1CD40-0AX0 (ANT 3)                                 | <br>28 x 50 x 10  |  |   |   |  |  | 1-28/ 35<br>(0.04-1.10/ 1.38)   | 1-20/ 28<br>(0.04-0.79/ 1.10)  |
| <b>RF350R ANT 3S</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1CD60-0AX0 (ANT 3S)                              | <br>28 x 50 x 10 |  |   |   |  |  |   |  |
| <b>RF350R ANT 12</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1DC10 (ANT 12) *)                               | <br>Ø12 x 40    |  |   |   |  |  | 0-8/ 12<br>(0-0.31/ 0.47)   | 1-8/ 10<br>(0.04-0.31/ 0.39)   |
| <b>RF350R ANT 18</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1DA10 (ANT 18) *)                               | <br>Ø18 x 40    |  |   |   |  |  | 1-18/ 20<br>(0.04-0.71/ 0.79)   | 1-12/ 16<br>(0.04-0.47/ 0.63)  |
| <b>Accessories</b>  |  |  |   | Holder<br>(6GT2 390-0AA00)<br><br>20 mm spacer<br>(6GT2 190-0AA00)<br><br>Fixing pocket<br>(6GT2 190-0AB00)   | Holder<br>(6GT2 390-0AA00)<br><br>20 mm spacer<br>(6GT2 190-0AA00)<br><br>Fixing pocket<br>(6GT2 190-0AB00)  | Holder<br>(6GT2 390-0AA00)<br><br>20 mm spacer<br>(6GT2 190-0AA00)<br><br>Fixing pocket<br>(6GT2 190-0AB00)  | Spacer<br>(6GT2 690-0AG00)<br>Angle pattern body<br>(6GT2690-0AN00)   | Spacer<br>(6GT2 690-0AG00)<br>Angle pattern body<br>(6GT2690-0AN00)  |

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)















| <b>RF300 Family Matrix<br/>(ISO Tags)</b><br><br>13.56 MHz<br>Passive Tags<br><br>Operational Temperature Range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) Rating | <b>Antennas</b>   | <b>D165</b><br>6GT2 600-1AB00-0AX0<br>112 byte EEPROM<br><br><br><br>-25°C to 85°C<br>86 x 54 x 0.3<br>IP65 | <b>D261</b><br>6GT2 600-1AA01-0AX0<br>256 byte EEPROM<br><br><br><br>-25°C to 85°C<br>55 x 55 x 0.3<br>IP65 | <b>D100</b><br>6GT2 600-0AD10<br>112 byte EEPROM<br><br><br><br>-25°C to 80°C<br>85,6 x 54 x 0.9<br>IP68 | <b>D200</b><br>6GT2 600-1AD00-0AX0<br>256 byte EEPROM<br><br><br><br>-20°C to 60°C<br>85.6 x 54 x 0.8<br>IP67 | <b>D400</b><br>6GT2 600-4AD00<br>2 kbyte FRAM<br><br><br><br>-20°C to 60°C<br>85.6 x 54 x 0.8<br>IP67 | <b>D160</b><br>6GT2 600-0AB10<br>112 byte EEPROM<br><br><br><br>-40°C to 175°C<br>Ø 16 x 3<br>IP68/IPx9K | <b>D460</b><br>6GT2 600-4AB00<br>2 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø 16 x 3<br>IP67/IPx9K |
|--|---|--|---|---|--|--|---|--|
| <b>RF350R ANT 30</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1DD10 (ANT 30)  | <br>Ø30 x 40                           |  |   |   |  |  | 1-24/ 28<br>(0.04-0.94/ 1.10)   | 1-18/ 20<br>(0.04-0.71/ 0.79)  |
| <b>RF360R</b><br><b>Ethernet</b><br>6GT2801-5BA30  | <b>Integrated</b><br>141 x 80 x 42  |  |   | 5-110/ 140<br>(0.20-4.33/ 5.51)   | 10-100/ 115<br>(0.39-3.94/ 4.53)   | 2-100/ 125<br>(0.08-3.94/ 4.92)  |   |  |
| <b>RF380R</b><br><b>RS422, RS232</b><br>6GT2801-3BA10<br>6GT2801-3BA10-0AX2 (Ex)   | <br><b>Integrated</b><br>160 x 96 x 41 | 10-170/ 200<br>(0.39-6.69/ 7.87)   | 20-120/ 160<br>(0.79-4.72/ 6.30)  | 10-170/ 210<br>(0.39-6.69/ 8.27)  | 20-150/195<br>(0.79-5.90/ 7.67)  | 10-165/ 185<br>(0.39-4.50/ 7.28)   | 2-64/ 80<br>(0.08-2.52/ 3.15)   | 2-65/ 90<br>(0.08-2.56/ 3.54)  |
| <b>RF382R</b><br><b>RS422, RS232</b><br>6GT2801-3AB20-0AX0   | <br><b>Integrated</b><br>160 x 96 x 41 |  |   |   |  |  | 35-50/ 65<br>(1.38-1.97/ 2.56)  | 35-50/ 60<br>(1.38-1.97/ 2.36)   |
| <b>Accessories</b>   |   |  |   | Holder<br>(6GT2 390-0AA00)<br>20 mm spacer<br>(6GT2 190-0AA00)<br>Fixing pocket<br>(6GT2 190-0AB00)   | Holder<br>(6GT2 390-0AA00)<br>20 mm spacer<br>(6GT2 190-0AA00)<br>Fixing pocket<br>(6GT2 190-0AB00)  | Holder<br>(6GT2 390-0AA00)<br>20 mm spacer<br>(6GT2 190-0AA00)<br>Fixing pocket<br>(6GT2 190-0AB00)  | Spacer<br>(6GT2 690-0AG00)<br>Angle pattern body<br>(6GT2690-0AN00)   | Spacer<br>(6GT2 690-0AG00)<br>Angle pattern body<br>(6GT2690-0AN00)  |

\* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC10 (ANT12) or 6GT2398-1DA00 (ANT18)

### Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)













Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)



| <b>RF300 Family Matrix<br/>(ISO Tags)</b><br><br>13.56 MHz<br>Passive Tags<br><br>Operational Temperature Range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) Rating | <b>Antennas</b>  | <b>D117</b><br>6GT2 600-0AG00<br>112 byte EEPROM<br><br><br><br>-40°C to 125°C<br>Ø4 x 5.2<br>IP68 IPx9K | <b>D127</b><br>6GT2 600-0AF00<br>112 byte EEPROM<br><br><br><br>-40°C to 125°C<br>Ø 6 x 5.8<br>IP68/ IPx9K | <b>D421</b><br>6GT2 600-4AE00<br>2 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø10 x 4.5<br>IP67/ IPx9K | <b>D422</b><br>6GT2 600-4AF00<br>2 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø20 x 6<br>IP68 | <b>D124</b><br>6GT2 600-0AC10<br>112 byte EEPROM<br><br><br><br>-40°C to 180°C<br>Ø 27 x 4<br>IP68/ IPx9K | <b>D324</b><br>6GT2 600-3AC00<br>992 byte EEPROM<br><br><br><br>-40°C to 140°C<br>Ø 27 x 4<br>IP67 | <b>D424</b><br>6GT2 600-4AC00<br>2 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø 27 x 4<br>IP67/ IPx9K |
|--|--|---|--|--|---|--|---|---|
| <b>RF310R</b><br><b>RS422</b><br>6GT2801-1BA10<br>6GT2801-1BA10-0AX1 (90° plate)<br>6GT2801-1BA10-0AX2 (Ex)<br>6GT2 801-1BA20-0AX1 (Scanmode)                                  | <br><b>Integrated</b><br>55 x 75 x 30 |   |  |  |   | 2-64/ 72<br>(0.08-2.52/ 2.83)  | 2-64/ 72<br>(0.08-2.52/ 2.83)   | 1-68/ 75<br>(0.04-2.68/ 2.95)   |
| <b>RF340R</b><br><b>RS422</b><br>6GT2801-2BA10<br>6GT2801-2BA10-0AX2 (Ex)  | <br><b>Integrated</b><br>75 x 75 x 41 |   |  |  |   | 2-60/ 75<br>(0.08-2.36/ 2.95)  | 2-55/ 70<br>(0.08-2.17/ 2.76)   | 2-55/ 70<br>(0.08-2.17/ 2.76)   |
| <b>RF350R ANT 1</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1CB00 (ANT 1)  | <br>75 x 75 x 20                      |   |  |  |   | 2-65/ 85<br>(0.08-2.56/ 3.35)  | 2-66/ 78<br>(0.08-2.60/ 3.07)   | 2-75/ 88<br>(0.08-2.95/ 3.46)   |
| <b>RF350R ANT 3</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1CD40-0AX0 (ANT 3)   | <br>28 x 50 x 10                      |   |  |  | 1-11/ 18<br>(0.04-0.43/ 0.71)   | 1-35/ 42<br>(0.04-1.38/ 1.65)  | 1-22/ 32<br>(0-0.04/ 1.26)  | 1-40/ 48<br>(0.04-1.57/ 1.89)   |
| <b>RF350R ANT 3S</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1CD60-0AX0 (ANT 3S)   | <br>28 x 50 x 10                     | 0-2/ 3<br>(0.0-0.08/ 0.12)  | 0-2/ 3<br>(0-0.08/ 0.12)   | 0-4/ 5<br>(0-0.16/ 0.20)   |   |  |   |   |
| <b>RF350R ANT 12</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1DC10 (ANT 12) *)   | <br>Ø12 x 40                        | 0-2/ 3<br>(0.0-0.08/ 0.12)  | 0-3/ 4<br>(0-0.12/ 0.16)   | 0-3/ 5<br>(0-0.12/ 0.20)   |   |  |   |   |
| <b>RF350R ANT 18</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1DA10 (ANT 18) *)   | <br>Ø18 x 40                        | 1-5/ 6<br>(0.04-0.20/ 0.24)   | 1-5/ 6<br>(0.04-0.20/ 0.24)  | 0-6/ 8<br>(0-0.24/ 0.31)   | 1-10/ 13<br>(0.04-0.39/ 0.51)   | 2-24/ 28<br>(0.08-0.94/ 1.10)  | 1-22/ 28<br>(0.04-0.87/ 1.1)  | 1-27/ 35<br>(0.04-1.06/ 1.38)   |
| <b>Accessories</b>   |  |   |  |  |   | Spacer<br>(6GT2 690-0AK00)   | Spacer<br>(6GT2 690-0AK00)  | Spacer<br>(6GT2 690-0AK00)  |

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)




















Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| <b>RF300 Family Matrix<br/>(ISO Tags)</b><br><br>13.56 MHz<br>Passive Tags<br><br>Operational Temperature Range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) Rating                | <b>Antennas</b>   | <b>D117</b><br>6GT2 600-0AG00<br>112 byte EEPROM<br><br><br><br>-40°C to 125°C<br>Ø4 x 5.2<br>IP68 IPx9K | <b>D127</b><br>6GT2 600-0AF00<br>112 byte EEPROM<br><br><br><br>-40°C to 125°C<br>Ø 6 x 5.8<br>IP68/ IPx9K | <b>D421</b><br>6GT2 600-4AE00<br>2 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø10 x 4.5<br>IP67/ IPx9K | <b>D422</b><br>6GT2 600-4AF00<br>2 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø20 x 6<br>IP68 | <b>D124</b><br>6GT2 600-0AC10<br>112 byte EEPROM<br><br><br><br>-40°C to 180°C<br>Ø 27 x 4<br>IP68/ IPx9K | <b>D324</b><br>6GT2 600-3AC00<br>992 byte EEPROM<br><br><br><br>-40°C to 140°C<br>Ø 27 x 4<br>IP67 | <b>D424</b><br>6GT2 600-4AC00<br>2 kbyte FRAM<br><br><br><br>-40°C to 100°C<br>Ø 27 x 4<br>IP67/ IPx9K |
|---|---|---|--|--|---|--|---|---|
| <b>RF350R ANT 30</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1DD10 (ANT 30)  | <br>Ø30 x 40 |   |  |  | 0-14/ 16<br>(0-0.55/ 0.63)  | 1-35/ 40<br>(0.04-1.38/ 1.57)  | 1-35/ 40<br>(0.04-1.38/ 1.57)   | 0-45/ 50<br>(0-1.77/ 1.97)  |
| <b>RF360R</b><br><b>Ethernet</b><br>6GT2801-5BA30    | <b>Integrated</b><br>141 x 80 x 42  |   |  |  |   | 2-60/ 75<br>(0.08-2.36/ 2.95)  | 2-55/ 70<br>(0.08-2.17/ 2.76)   | 2-55/ 70<br>(0.08-2.17/ 2.76)   |
| <b>RF380R</b><br><b>RS422, RS232</b><br>6GT2801-3BA10<br>6GT2801-3BA10-0AX2 (Ex)                             | <b>Integrated</b><br>160 x 96 x 41  |   |  |  |   | 1-120/ 140<br>(0.04-4.72/ 5.51)  | 2-96/ 120<br>(0.08-3.78/ 4.72)  | 2-120/ 140<br>(0.08-4.72/ 5.51)   |
| <b>RF382R</b><br><b>RS422, RS232</b><br>6GT2801-3AB20-0AX0   | <b>Integrated</b><br>160 x 96 x 41  |   |  |  |   | 40-65/ 75<br>(1.57-2.56/ 2.95)   | 40-65/ 75<br>(1.57-2.56/ 2.95)  | 40-65/ 75<br>(1.57-2.56/ 2.95)  |
| <b>Accessories</b>  |   |   |  |  |   | Spacer<br>(6GT2 690-OAK00)   | Spacer<br>(6GT2 690-OAK00)  | Spacer<br>(6GT2 690-OAK00)  |

\* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC10 (ANT12) or 6GT2398-1DA00 (ANT18)













### Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| <b>RF300 Family Matrix<br/>(ISO Tags)</b><br><br>13.56 MHz<br>Passive Tags<br><br>Operational Temperature Range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) Rating  | <b>Antennas</b>  | <b>D126</b><br>6GT2 600-0AE00<br>112 byte EEPROM<br><br>-40°C to 100°C<br>Ø 50 x 3.6<br>IP68 | <b>D426</b><br>6GT2 600-4AH00<br>2 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 50 x 3.6<br>IP68 | <b>D423</b><br>6GT2 600-4AA00<br>2 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 30 x 8<br>IP68/ IPx9K | <b>D425</b><br>6GT2 600-4AG00<br>2 kbyte FRAM<br><br>-40°C to 125°C<br>Ø 24 x 10<br>IP68/ IPx9K | <b>D428</b><br>6GT2 600-4AK00-0AX0<br>2 kbyte FRAM<br><br>-40°C to 125°C<br>Ø 24 x 20<br>IP68/ IPx9K | <b>D139</b><br>6GT2 600-0AA10<br>112 byte EEPROM<br><br>-40°C to 220°C<br>Ø 85 x 15<br>IP68/IPx9K | <b>D339</b><br>6GT2600-3AA10<br>992 byte EEPROM<br><br>-40°C to 220°C<br>Ø 85 x 15<br>IP68/IPx9K |
|---|--|---|---|---|--|---|--|---|
| <b>RF310R</b><br><b>RS422</b><br>6GT2801-1BA10<br>6GT2801-1BA10-0AX1 (90° plate)<br>6GT2801-1BA10-0AX2 (Ex)<br>6GT2 801-1BA20-0AX1 (Scanmode)  | <b>Integrated</b><br><br>55 x 75 x 30  | 2-65/ 73<br>(0.08-2.56/ 2.87)   | 5-75/ 90<br>(0.2-2.95/ 3.54)  | 2-35/ 40<br>(0.08-1.37/ 1.57)   | 1-22/ 25<br>(0.04-0.87/ 0.98)  | 1-40/ 45<br>(0.08-1.57/ 1.77)   | 5-96/ 109<br>(0.20-3.78/ 4.29)   | 5-74/ 84<br>(0.20-2.91/ 3.31)   |
| <b>RF340R</b><br><b>RS422</b><br>6GT2801-2BA10<br>6GT2801-2BA10-0AX2 (Ex)    | <b>Integrated</b><br><br>75 x 75 x 41  | 2-85/ 110<br>(0.08-3.34/ 4.33)  | 0-80/ 100<br>(0.0-3.15/ 3.94)   | 5-40/ 48<br>(0.2-1.57/ 1.89)  | 2-20/ 30<br>(0.08-0.79/ 1.18)  | 2-40/ 50<br>(0.08-1.57/ 1.97)   | 5-80/ 110<br>(0.20-3.15/ 4.33)   | 5-75/ 85<br>(0.20-2.95/ 3.35)   |
| <b>RF350R ANT 1</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1CB00 (ANT 1)                                      | <br>75 x 75 x 20  | 2-90/ 120<br>(0.08-3.54/ 4.72)  | 2-85/ 95<br>(0.08-3.35/ 3.74)   | 2-40/ 50<br>(0.08-1.57/ 1.97)   | 2-23/ 32<br>(0.08-0.91/ 1.26)  | 2-40/ 50<br>(0.08-1.57/ 1.97)   | 5-85/ 115<br>(0.20-3.35/ 4.53)   | 5-90/ 105<br>(0.20-3.54/ 4.13)  |
| <b>RF350R ANT 3</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1CD40-0AX0 (ANT 3)                                 | <br>28 x 50 x 10  |   |   | 5-20/ 30<br>(0.2-0.79/ 1.18)  | 2-18/ 22<br>(0.08-0.71/ 0.87)  | 2-28/ 30<br>(0.08-1.10/ 1.18)   |  |   |
| <b>RF350R ANT 3S</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1CD60-0AX0 (ANT 3S)                              | <br>28 x 50 x 10 |   |   |   |  |   |  |   |
| <b>RF350R ANT 12</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1DC10 (ANT 12) *                                | <br>Ø12 x 40    |   |   |   |  | 1-10/ 17<br>(0.04-0.39/ 0.67)   |  |   |
| <b>RF350R ANT 18</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1DA10 (ANT 18) *                                | <br>Ø18 x 40    |   |   |   | 1-10/ 14<br>(0.04-0.39/ 0.55)  | 1-15/ 20<br>(0.04-0.59/ 0.79)   |  |   |
| <b>Accessories</b>  |  | Spacer<br>(6GT2 690-0AL00)  | Spacer<br>(6GT2 690-0AL00)  | Mounting cover<br>(6GT2 690-0AE00)  |  |   | Spacer<br>(6GT2 690-0AA00)<br><br>Mount for quick tag exchange<br>(6GT2 690-0AH00 - long)<br>(6GT2 690-0AH10 - short)  |   |

Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)















Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| <b>RF300 Family Matrix<br/>(ISO Tags)</b><br><br>13.56 MHz<br>Passive Tags<br><br>Operational Temperature Range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) Rating          | <b>Antennas</b>   | <b>D126</b><br>6GT2 600-0AE00<br>112 byte EEPROM<br><br>-40°C to 100°C<br>Ø 50 x 3.6<br>IP68 | <b>D426</b><br>6GT2 600-4AH00<br>2 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 50 x 3.6<br>IP68 | <b>D423</b><br>6GT2 600-4AA00<br>2 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 30 x 8<br>IP68/ IPx9K | <b>D425</b><br>6GT2 600-4AG00<br>2 kbyte FRAM<br><br>-40°C to 125°C<br>Ø 24 x 10<br>IP68/ IPx9K | <b>D428</b><br>6GT2 600-4AK00-0AX0<br>2 kbyte FRAM<br><br>-40°C to 125°C<br>Ø 24 x 20<br>IP68/ IPx9K | <b>D139</b><br>6GT2 600-0AA10<br>112 byte EEPROM<br><br>-40°C to 220°C<br>Ø 85 x 15<br>IP68/IPx9K | <b>D339</b><br>6GT2600-3AA10<br>992 byte EEPROM<br><br>-40°C to 220°C<br>Ø 85 x 15<br>IP68/IPx9K |
|---|---|---|---|---|--|---|--|---|
| <b>RF350R ANT 30<br/>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1DD10 (ANT 30)  | <br>Ø30 x 40 | 1-42/ 50<br>(0-1.65/ 1.97)  | 0-45/ 48<br>(0-1.77/ 1.89)  | 1-38/ 40<br>(0.04-1.50/ 1.57)   | 1-15/ 20<br>(0.04-0.59/ 0.79)  | 1-25/ 28<br>(0.04-0.98/ 1.10)   |  |   |
| <b>RF360R<br/>Ethernet</b><br>6GT2801-5BA30    | <b>Integrated</b><br>141 x 80 x 42  | 2-85/ 110<br>(0.08-3.35/ 4.33)  | 1-80/ 100<br>(0.04-3.15/ 3.94)  |   |  |   | 5-80/ 110<br>(0.2-3.15/ 4.33)  | 5-75/ 85<br>(0.2-2.95/ 3.35)  |
| <b>RF380R<br/>RS422, RS232</b><br>6GT2801-3BA10<br>6GT2801-3BA10-0AX2 (Ex)                             | <b>Integrated</b><br>160 x 96 x 41  | 2-145/ 190<br>(0.08-5.71/ 7.48)   | 2-155/ 195<br>(0.08-6.1/ 7.68)  | 5-75/ 90<br>(0.2-2.95/ 3.54)  | 2-35/ 50<br>(0.08-1.38/ 1.97)  | 2-70/ 95<br>(0.08-2.76/ 3.74)   | 5-160/ 200<br>(0.20-6.30/ 7.87)  | 5-160/ 180<br>(0.20-6.30/ 7.09)   |
| <b>RF382R<br/>RS422, RS232</b><br>6GT2801-3AB20-0AX0   | <b>Integrated</b><br>160 x 96 x 41  |   |   |   |  |   |  |   |
| <b>Accessories</b>  |   | Spacer<br>(6GT2 690-0AL00)  | Spacer<br>(6GT2 690-0AL00)  | Mounting cover<br>(6GT2 690-0AE00)  |  |   | Spacer<br>(6GT2 690-0AA00)<br><br>Mount for quick tag exchange<br>(6GT2 690-0AH00 - long)<br>(6GT2 690-0AH10 – short)  |   |

\* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC10 (ANT12) or 6GT2398-1DA00 (ANT18)

### Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)














Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| <b>RF300 Family Matrix<br/>(8 KB ISO Tags)</b><br><br>13.56 MHz<br>Passive Tags<br><br>Operational Temperature Range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) Rating | <b>Antennas</b>  | <b>D521</b><br>6GT2 600-5AE00<br>8 kByte FRAM<br><br><br><br>-40°C to 100°C<br>Ø 10 x 4.5<br>IP67/IPx9K | <b>D522</b><br>6GT2 600-5AF00<br>8 kByte FRAM<br><br><br><br>-40°C to 100°C<br>Ø 20 x 6<br>IP68 | <b>D524</b><br>6GT2 600-5AC00<br>8 kByte FRAM<br><br><br><br>-40°C to 100°C<br>Ø 27 x 4<br>IP67 / IPx9k | <b>D525</b><br>6GT2 600-5AG00<br>8 kByte FRAM<br><br><br><br>-40°C to 125°C<br>Ø 24 x 10<br>IP68 / IPx9k | <b>D526</b><br>6GT2 600-5AH00<br>8 kByte FRAM<br><br><br><br>-40°C to 100°C<br>Ø 50 x 3.6<br>IP68 | <b>D528</b><br>6GT2 600-5AK00<br>8 kByte FRAM<br><br><br><br>-40°C to 125°C<br>Ø 24 x 20<br>IP68/IPx9K | <b>D560</b><br>6GT2 600-5AB00<br>8 kByte FRAM<br><br><br><br>-40°C to 90°C<br>Ø 16 x 3<br>IP68/IPx9K |
|---|--|--|---|--|---|--|---|---|
| <b>RF310R</b><br><b>RS422</b><br>6GT2801-1BA10<br>6GT2801-1BA10-0AX1 (90° plate)<br>6GT2801-1BA10-0AX2 (Ex)   | <br><b>Integrated</b><br>55 x 75 x 30 |  |   | 1...70/78<br>(0.04-2.76/ 3.07)   | 1...22/25<br>(0.04-0.87/ 0.98)  | 5...80/90<br>(0.2-3.14/ 3.54)  | 1...43/48<br>(0.04-1.69/ 1.89)  | 1...32/38<br>(0.04-1.26/ 1.5)   |
| <b>RF340R</b><br><b>RS422</b><br>6GT2801-2BA10<br>6GT2801-2BA10-0AX2 (Ex)   | <br><b>Integrated</b><br>75 x 75 x 41 |  |   | 2...55/70<br>(0.08-2.16/ 2.76)   | 2...20/30<br>(0.08-0.79/ 1.18)  | 0...80/100<br>(0-3.15/ 3.94)   | 2...40/50<br>(0.08-1.57/ 1.97)  | 2...25/40<br>(0.08-0.98/ 1.57)  |
| <b>RF350R ANT 1</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1CB00 (ANT 1)   | <br>75 x 75 x 20                      |  |   | 2...65/85<br>(0.08-2.56/ 3.35)   | 2...25/35<br>(0.08-0.98/ 1.38)  | 0...85/105<br>(0-3.35/ 4.13)   | 2...35/50<br>(0.08-1.38/ 1.97)  | 2...32/38<br>(0.08-1.26/ 1.5)   |
| <b>RF350R ANT 3</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1CD40-0AX0 (ANT 3)  | <br>28 x 50 x 10                      |  | 1...19/22<br>(0.04-0.75/ 0.87)  | 5...52/56<br>(0.2-2.05/ 2.20)  | 2...21/24<br>(0.08-0.83/ 0.94)  |  | 2...24/26<br>(0.08-0.94/ 1.02)  | 1...20/28<br>(0.04-0.79/ 1.1)   |
| <b>RF350R ANT 3S</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1CD60-0AX0 (ANT 3S)  | <br>28 x 50 x 10                     | 0...3/4<br>(0-0.12/ 0.16)  |   |  |   |  |   |   |
| <b>RF350R ANT 12</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1DC10 (ANT 12) *)  | <br>Ø12 x 40                        | 0...4/5<br>(0-0.16/ 0.2)   |   |  |   |  | 1...16/17<br>(0.04-0.63/ 0.67)  | 1...8/10<br>(0.04-0.31/ 0.39)   |
| <b>RF350R ANT 18</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1DA10 (ANT 18) *)  | <br>Ø18 x 40                        | 0...6/8<br>(0-0.24/ 0.31)  | 1...10/13<br>(0.04-0.39/ 0.51)  | 1...27/35<br>(0.04-1.06/ 1.38)   | 1...10/14<br>(0.04-0.39/ 0.55)  |  | 1...15/20<br>(0.04-0.59/ 0.79)  | 1...12/16<br>(0.04-0.47/ 0.63)  |
| <b>Accessories</b>  |  |  |   | Spacer<br>(6GT2 690-0AK00)   |   | Spacer<br>(6GT2 690-0AL00)   |   | Spacer<br>(6GT2 690-0AG00)<br>Angle pattern body<br>(6GT2690-0AN00)   |

\* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC10 (ANT12) or 6GT2398-1DA00 (ANT18)

















### Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| <b>RF300 Family Matrix<br/>(8 KB ISO Tags)</b><br><br>13.56 MHz<br>Passive Tags<br><br>Operational Temperature Range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) Rating   | <b>Antennas</b>   | <b>D521</b><br>6GT2 600-5AE00<br>8 kByte FRAM<br><br><br><br>-40°C to 100°C<br>Ø 10 x 4.5<br>IP67/IPx9K | <b>D522</b><br>6GT2 600-5AF00<br>8 kByte FRAM<br><br><br><br>-40°C to 100°C<br>Ø 20 x 6<br>IP68 | <b>D524</b><br>6GT2 600-5AC00<br>8 kByte FRAM<br><br><br><br>-40°C to 100°C<br>Ø 27 x 4<br>IP67 / IPx9k | <b>D525</b><br>6GT2 600-5AG00<br>8 kbyte FRAM<br><br><br><br>-40°C to 125°C<br>Ø 24 x 10<br>IP68 / IPx9k | <b>D526</b><br>6GT2 600-5AH00<br>8 kByte FRAM<br><br><br><br>-40°C to 100°C<br>Ø 50 x 3.6<br>IP68 | <b>D528</b><br>6GT2 600-5AK00<br>8 kByte FRAM<br><br><br><br>-40°C to 125°C<br>Ø 24 x 20<br>IP68/IPx9K | <b>D560</b><br>6GT2 600-5AB00<br>8 kByte FRAM<br><br><br><br>-40°C to 90°C<br>Ø 16 x 3<br>IP68/IPx9K |
|---|---|--|---|--|---|--|---|---|
| <b>RF350R ANT 30<br/>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1DD10 (ANT 30)   | <br>Ø30 x 40 |  | 1-19/ 22<br>(0.04-0.75/ 0.87)   | 0-45/ 50<br>(0-1.77/ 1.97)   | 1-15/ 20<br>(0.04-0.59/ 0.79)   | 0-45/ 48<br>(0-1.77/ 1.89)   | 1-25/ 28<br>(0.04-0.98/ 1.10)   | 1-18/ 20<br>(0.04-0.71/ 0.79)   |
| <b>RF360R<br/>Ethernet</b><br>6GT2801-5BA30    | <b>Integrated</b><br>141 x 80 x 42  |  |   | 2-55/ 70<br>(0.08-2.17/ 2.76)  |   | 1-80/ 100<br>(0.04-3.15/ 3.94)   |   |   |
| <b>RF380R<br/>RS422, RS232</b><br>6GT2801-3BA10<br>6GT2801-3BA10-0AX2 (Ex)                              | <b>Integrated</b><br>160 x 96 x 41  |  |   | 2-120/ 140<br>(0.08-4.72/ 5.51)  | 2-35/ 50<br>(0.08-1.38/ 1.97)   | 2-155/ 195<br>(0.08-6.10/ 7.68)  | 2-70/ 95<br>(0.08-2.76/ 3.74)   | 2-65/ 90<br>(0.08-2.56/ 3.54)   |
| <b>Accessories</b>  |   |  |   | Spacer<br>(6GT2 690-0AK00)   |   | Spacer<br>(6GT2 690-0AL00)   |   | Spacer<br>(6GT2 690-0AG00)<br>Angle pattern body<br>(6GT2690-0AN00)   |

**Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)**








Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

| <b>RF300 Family Matrix<br/>(MOBY E compatibility)</b><br><br>13.56 MHz<br>Passive Tags<br>Operational Temperature Range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) Rating             | <b>Antennas</b>   | <b>E600</b><br>6GT2 300-0AA00<br>752 byte EEPROM<br><br>-25°C to 60°C<br>86 x 54 x 0.76<br>IP68 | <b>E611</b><br>6GT2 300-0BB00<br>752 byte EEPROM<br><br>-40°C to 85°C<br>86 x 54 x 2.5<br>IP67 | <b>E623</b><br>6GT2 300-0CD00<br>752 byte EEPROM<br><br>-40°C to 100°C<br>Ø10 x 4.5<br>IP67/ IPx9K | <b>E624</b><br>6GT2 300-0CE00<br>752 byte EEPROM<br><br>-40°C to 150°C<br>Ø 27 x 4<br>IP67/ IPx9K |
|--|---|--|---|---|--|
| <b>RF310R</b><br><b>RS422</b><br>6GT2801-1BA10<br>6GT2801-1BA10-0AX1 (90° plate)<br>6GT2801-1BA10-0AX2 (Ex)       | <b>Integrated</b><br>55 x 75 x 30   | 2-30/ 43<br>(0.08-1.18/ 1.69)  | 2-40/ 60<br>(0.08-1.57/ 2.36)   |   | 2-35/ 36<br>(0.08-1.37/ 1.42)  |
| <b>RF340R</b><br><b>RS422</b><br>6GT2801-2BA10<br>6GT2801-2BA10-0AX2 (Ex)   | <b>Integrated</b><br>75 x 75 x 41   | 5-50/ 65<br>(0.2-1.97/ 2.56)   | 10-50/ 65<br>(0.39-1.97/ 2.56)  |   | 2-35/ 45<br>(0.08-1.37/ 1.77)  |
| <b>RF350R ANT 1</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1CB00 (ANT 1)         | <br>75 x 75 x 20 | 10-50/ 60<br>(0.39-1.97/ 2.36)   | 20-50/ 65<br>(0.79-1.97/ 2.56)  |   | 2-35/ 45<br>(0.08-1.37/ 1.77)  |
| <b>RF350R ANT 3</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1CD40-0AX0 (ANT 3)    | <br>28 x 50 x 10 |  |   |   | 1-15/ 16<br>(0.04-0.59/ 0.63)  |
| <b>RF350R ANT 3S</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1CD60-0AX0 (ANT 3S)  | <br>28 x 50 x 10 |  |   |   |  |
| <b>RF350R ANT 12</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1DC10 (ANT 12) *)  | <br>Ø12 x 40   |  |   | 0-4/ 5<br>(0-0.16/ 0.20)  |  |
| <b>RF350R ANT 18</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1DA10 (ANT 18) *)  | <br>Ø18 x 40   |  |   | 0-6/ 8<br>(0-0.24/ 0.31)  | 2-15/ 20<br>(0.08-0.59/ 0.79)  |
| <b>Accessories</b>   |   | Holder<br>(6GT2 390-0AA00)<br>20 mm spacer<br>(6GT2 190-0AA00)<br>Fixing pocket<br>(6GT2 190-0AB00)  | Holder<br>(6GT2 390-0AA00)<br>20 mm spacer<br>(6GT2 190-0AA00)<br>Fixing pocket<br>(6GT2 190-0AB00)   |   | Spacer<br>(6GT2 690-0AK00)   |

\* antennas also available with 0.6 m antenna cable: use 0.6 m antenna cable 6GT2391-0AE60 together with 6GT2398-1DC10 (ANT12) or 6GT2398-1DA00 (ANT18)

### Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)

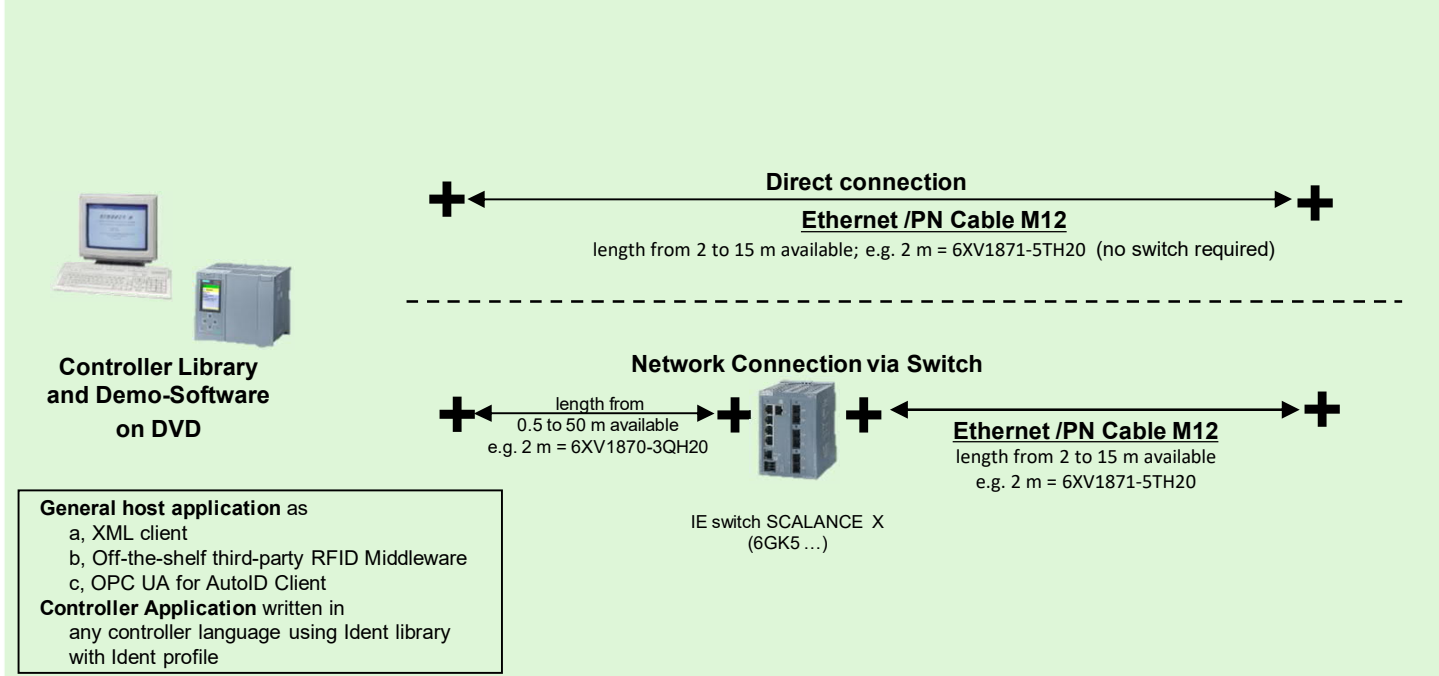
| <b>RF300 Family Matrix<br/>(MOBY E compatibility)</b><br><br>13.56 MHz<br>Passive Tags<br>Operational Temperature Range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) Rating        | <b>Antennas</b>   | <b>E600</b><br>6GT2 300-0AA00<br>752 byte EEPROM<br><br>-25°C to 60°C<br>86 x 54 x 0.76<br>IP68 | <b>E611</b><br>6GT2 300-0BB00<br>752 byte EEPROM<br><br>-40°C to 85°C<br>86 x 54 x 2.5<br>IP67 | <b>E623</b><br>6GT2 300-0CD00<br>752 byte EEPROM<br><br>-40°C to 100°C<br>Ø10 x 4.5<br>IP67/ IPx9K | <b>E624</b><br>6GT2 300-0CE00<br>752 byte EEPROM<br><br>-40°C to 150°C<br>Ø 27 x 4<br>IP67/ IPx9K |
|---|---|--|---|---|--|
| <b>RF350R ANT 30</b><br><b>RS422</b><br>6GT2801-4BA10<br>6GT2801-4BA10-0AX2 (Ex)<br>6GT2 398-1DD10 (ANT 30)  | <br>Ø30 x 40 |  |   |   | 1-20/ 24<br>(0.04-0.79/ 0.94)  |
| <b>RF380R</b><br><b>RS422, RS232</b><br>6GT2801-3BA10<br>6GT2801-3BA10-0AX2 (Ex)                             | <b>Integrated</b><br>160 x 96 x 41  | 10-80/ 95<br>(0.39-3.15/ 3.74)   | 10-115/ 135<br>(0.39-4.53/ 5.31)  |   | 5-50/ 60<br>(0.20-1.97/ 2.36)  |
| <b>Accessories</b>  |   | Holder<br>(6GT2 390-0AA00)<br>20 mm spacer<br>(6GT2 190-0AA00)<br>Fixing pocket<br>(6GT2 190-0AB00)  | Holder<br>(6GT2 390-0AA00)<br>20 mm spacer<br>(6GT2 190-0AA00)<br>Fixing pocket<br>(6GT2 190-0AB00)   |   | Spacer<br>(6GT2 690-0AK00)   |

**Operating Distance Range (mm) / Maximum Distance for Stationary Tag (mm)**

Operating Distance Range (inch) / Maximum Distance for Stationary Tag (inch)



## PROFINET & OPC UA & TCP/IP



### Reader with external power supply



**RF360R**  
6GT2801-5BA30

#### Power supply

**EU connector**  
6GT2 898-0AC00

**UK connector**  
6GT2 898-0AC10

**US connector**  
6GT2 898-0AC20

cable 24 V for power supply  
5 m = 6GT2 091-0PH50

**cable M12 L-coded**  
 180° = 6XV1801-6Dxxx\*  
 90° = 6XV1801-6Gxxx\*

**Cover caps**  
3RX9 802-0AA00

\* More details on page 78

### Tags

**RF320T**  
(6GT2 800-1CA00)

**RF330T**  
(6GT2 800-5BA00)

**RF340T**  
(8 kb: 6GT2 800-4BB00)  
(32 kb: 6GT2 800-5BB00)

**RF350T**  
(6GT2 800-5BD00)

**RF360T**  
(8 kb: 6GT2 800-4AC00)  
(32 kb: 6GT2 800-5AC00)

**RF370T**  
(32 kb: 6GT2 800-5BE00)  
(64 kb: 6GT2 800-6BE00)

**RF380T**  
(6GT2 800-5DA00)

### ISO TAGs

- D100** 6GT2 600-0AD10
- D200** 6GT2 600-1AD00-0AX0
- D400** 6GT2 600-4AD00
- D124** 6GT2 600-0AC10
- D324** 6GT2 600-3AC00
- D424** 6GT2 600-4AC00
- D524** 6GT2 600-5AC00
- D126** 6GT2 600-0AE00
- D426** 6GT2 600-4AH00
- D526** 6GT2 600-5AH00
- D139** 6GT2 600-0AA10
- D339** 6GT2 600-3AA10

## PROFINET & OPC UA & Ethernet/IP & TCP/IP

### Communication Modules

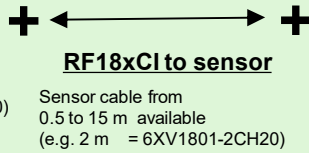


A maximum of  
**1 reader at RF185C,**  
**2 readers at RF186C/CI,**  
**4 readers at RF188C/CI**  
**of RF3x0R may be connected**

2 m = 6GT2 891-4FH20      5 m = 6GT2 891-4FH50  
 10 m = 6GT2 891-4FN10    20 m = 6GT2 891-4FN20  
 50 m = 6GT2 891-4FN50\*

Reader connector 90° angled:  
 2 m = 6GT2 891-4JH20      5 m = 6GT2 891-4JH50  
 10 m = 6GT2 891-4JN10

### Additional IOs



### Types of IO-Link IO module

IO-extension module  
 6ES7 14..... (up to 8xDI + 8xDO)  
**See page 76 for detailed information**

Or one  
**Standard sensor**

Or one  
**Actor**

## Reader

powered through connection cable



**RF310R RS422**  
 6GT2 801-1BA10  
 6GT2801-1BA10-0AX1 (90° plate)  
 6GT2801-1BA10-0AX2 (Ex)



**RF340R**  
 6GT2 801-2BA10  
 6GT2801-2BA10-0AX2 (Ex)



**RF350R**  
 6GT2 801-4BA10,  
 /-4BA10-0AX2 (Ex)



**RF380R**  
 6GT2 801-3BA10  
 6GT2801-3BA10-0AX2 (Ex)

- ANT 1** (6GT2 398-1CB00)
- ANT 3** (6GT2 398-1CD40-0AX0)
- ANT 3S** (6GT2 398-1CD60-0AX0)
- ANT 12** (6GT2398-1DC10)
- ANT 18** (6GT2398-1DA10)
- ANT 30** (6GT2398-1DD10)

## Tags

**RF320T**  
 (6GT2 800-1CA00)

**RF330T**  
 (6GT2 800-5BA00)

**RF340T**  
 (8 kb: 6GT2 800-4BB00)  
 (32 kb: 6GT2 800-5BB00)

**RF350T**  
 (6GT2 800-5BD00)

**RF360T**  
 (8 kb: 6GT2 800-4AC00)  
 (32 kb: 6GT2 800-5AC00)

**RF370T**  
 (32 kb: 6GT2 800-5BE00)  
 (64 kb: 6GT2 800-6BE00)

**RF380T**  
 (6GT2 800-5DA00)

## ISO TAGS

- D100** 6GT2 600-0AD10
- D200** 6GT2 600-1AD00-0AX0
- D400** 6GT2 600-4AD00
- D117** 6GT2 600-0AG00
- D421** 6GT2 600-4AE00
- D422** 6GT2 600-4AF00
- D423** 6GT2 600-4AA00
- D124** 6GT2 600-0AC10
- D324** 6GT2 600-3AC00
- D424** 6GT2 600-4AC00
- D425** 6GT2 600-4AG00
- D126** 6GT2 600-0AE00
- D426** 6GT2 600-4AH00
- D127** 6GT2 600-0AF00
- D428** 6GT2 600-4AK00-0AX0
- D139** 6GT2 600-0AA10
- D339** 6GT2 600-3AA10
- D160** 6GT2 600-0AB10
- D460** 6GT2 600-4AB00
- D560** 6GT2600-5AB00
- D261** 6GT2 600-1AA01-0AX0
- D165** 6GT2 600-1AB00-0AX0

## SIMATIC PLC S7-1200



A maximum of 1 readers may be connected  
← **RF120C to RF3x0R** →

- 2 m = 6GT2 091-4LH20      5 m = 6GT2 091-4LH50
- 10m = 6GT2 091-4LN10
- And extension cables:
- 2 m = 6GT2 891-4FH20      5 m = 6GT2 891-4FH50
- 10 m = 6GT2 891-4FN10      20 m = 6GT2 891-4FN20
- 50 m = 6GT2 891-4FN50
- 2 m = 6GT2 891-4JH20 Reader connector 90° angled
- 5 m = 6GT2 891-4JH50 Reader connector 90° angled
- 10 m = 6GT2 891-4JN10 Reader connector 90° angled

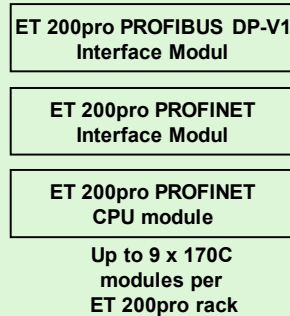
## SIMATIC PLC S7-300 Rack or S7-400 via ET 200M (DP-V1/PN-IO)



A maximum of 2 Readers may be connected  
← **ASM 475 to RF3x0R** →

- 2 m = 6GT2 891-4EH20      5 m = 6GT2 891-4EH50
- And Extension Cables:
- 2 m = 6GT2 891-4FH20      5 m = 6GT2 891-4FH50
- 10 m = 6GT2 891-4FN10      20 m = 6GT2 891-4FN20
- 50 m = 6GT2 891-4FN50
- 2 m = 6GT2 891-4JH20 Reader connector 90° angled
- 5 m = 6GT2 891-4JH50 Reader connector 90° angled
- 10 m = 6GT2 891-4JN10 Reader connector 90° angled

## ET 200pro via PROFIBUS or PROFINET or S7 PLC



A maximum of 2 readers may be connected  
← **RF170C to RF3x0R** →

- 2 m = 6GT2 891-4FH20      5 m = 6GT2 891-4FH50
- 10 m = 6GT2 891-4FN10      20 m = 6GT2 891-4FN20
- 50 m = 6GT2 891-4FN50
- Reader connector 90° angled
- 2 m = 6GT2 891-4JH20      5 m = 6GT2 891-4JH50
- 10 m = 6GT2 891-4JN10

## PROFIBUS



A maximum of 2 readers may be connected  
← **RF166C to RF2x0R** →

- 2 m = 6GT2 891-4FH20      5 m = 6GT2 891-4FH50
- 10 m = 6GT2 891-4FN10      20 m = 6GT2 891-4FN20
- 50 m = 6GT2 891-4FN50\*
- Reader connector 90° angled
- 2 m = 6GT2 891-4JH20      5 m = 6GT2 891-4JH50
- 10 m = 6GT2 891-4JN10

## Reader powered through connection cable



**RF310R RS422**  
6GT2 801-1BA10  
6GT2801-1BA10-0AX1 (90° plate)  
6GT2801-1BA10-0AX2 (Ex)



**RF340R**  
6GT2 801-2BA10  
6GT2801-2BA10-0AX2 (Ex)

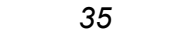
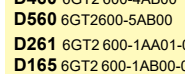
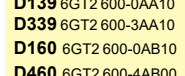
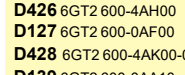
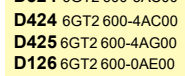
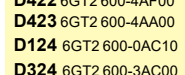
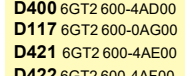
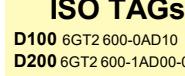
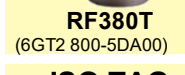
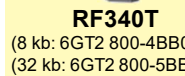


**RF350R**  
6GT2 801-4BA10,  
-4BA10-0AX2 (Ex)

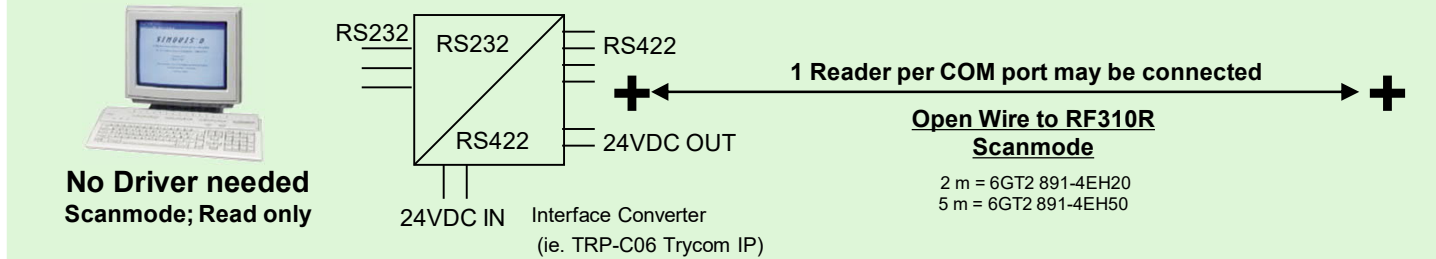


**RF380R**  
6GT2 801-3BA10  
6GT2801-3BA10-0AX2 (Ex)

## Tags



## RS232/RS422



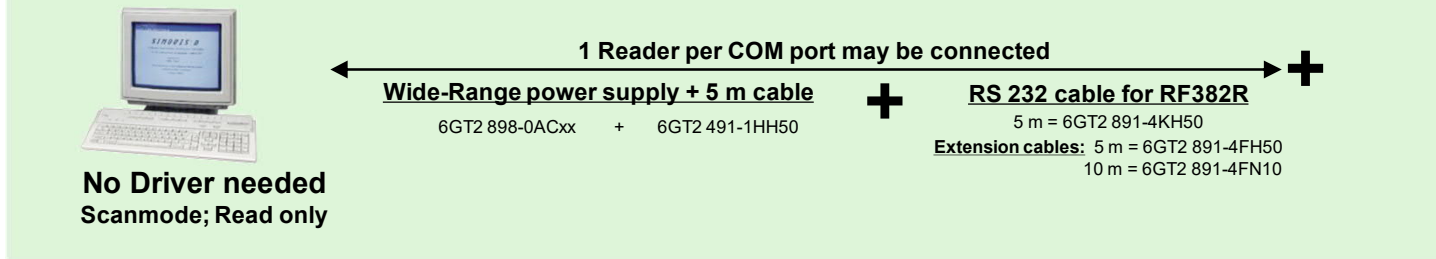
**Reader**  
with external power supply

**RF310R Scanmode**  
(6GT2 801-1BA20-0AX1)

**Tags**

- RF320T**  
(6GT2 800-1CA00)
- RF330T**  
(6GT2 800-5BA00)
- RF340T**  
(8 kb: 6GT2 800-4BB00)  
(32 kb: 6GT2 800-5BB00)
- RF350T**  
(6GT2 800-5BD00)
- RF360T**  
(8 kb: 6GT2 800-4AC00)  
(32 kb: 6GT2 800-5AC00)
- RF370T**  
(32 kb: 6GT2 800-5BE00)  
(64 kb: 6GT2 800-6BE00)
- RF380T**  
(6GT2 800-5DA00)

## RS232



















**Reader**  
with external power supply at Y-cable

**RF382R**  
(6GT2 801-3AB20-0AX0)

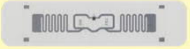

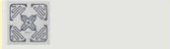

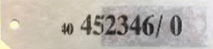










**ISO TAGs**

- D100** 6GT2 600-0AD10
- D200** 6GT2 600-1AD00-0AX0
- D400** 6GT2 600-4AD00
- D117** 6GT2 600-0AG00
- D421** 6GT2 600-4AE00
- D422** 6GT2 600-4AF00
- D423** 6GT2 600-4AA00
- D124** 6GT2 600-0AC10
- D324** 6GT2 600-3AC00
- D424** 6GT2 600-4AC00
- D425** 6GT2 600-4AG00
- D126** 6GT2 600-0AE00
- D426** 6GT2 600-4AH00
- D127** 6GT2 600-0AF00
- D428** 6GT2 600-4AK00-0AX0
- D139** 6GT2 600-0AA10
- D339** 6GT2 600-3AA10
- D160** 6GT2 600-0AB10
- D460** 6GT2 600-4AB00
- D560** 6GT2600-5AB00
- D261** 6GT2 600-1AA01-0AX0
- D165** 6GT2 600-1AB00-0AX0















| <b>RF600 Family Matrix Labels</b><br>865-868 MHz (ETSI)<br>902-928 MHz (FCC)<br>Passive Tags (with Gen2 protocol)<br>Operational Temperature Range<br>Dimensions ( L x W x D) mm<br>Ingress Protection (IP) Rating  | <b>Antennas</b>  | <b>RF630L</b><br>6GT2 810-2AB02-0AX0<br>128 bits EPC,<br>64 byte<br><br>-40°C to 80°C<br>97 x 27<br>IP65 | <b>RF630L</b><br>6GT2 810-2AE82-0AX0<br>.../-0AX1 /-0AX2 /-1AX0<br>/-2AX0 /-2AX1<br>128 bits EPC<br><br>-25°C to 160°C<br>various sizes*<br>IP67 | <b>RF630L</b><br>6GT2 810-2AE83-1AX0<br>128 bits EPC<br><br>-25°C to 130°C<br>45 x 20<br>IP67 washable | <b>RF630L</b><br>6GT2 810-2AB03<br>96/240 bits EPC,<br>64 byte<br><br>-40°C to 80°C<br>54 x 34<br>IP65 | <b>RF630L</b><br>6GT2 810-2AB04<br>256 bits EPC,<br>64 byte<br><br>-20°C to 160°C<br>74 x 27<br>IP60 | <b>RF630L</b><br>6GT2810-2AB04-0AX1<br>448 bits EPC,<br>256 byte<br><br>-25°C to 130°C<br>101.6 x 50.8<br>IP67 | <b>RF630L</b><br>6GT2 810-2AC84<br>448 bits EPC,<br>256 byte<br><br>-40°C to 85°C<br>73 x 12.5<br>IP67 |
|---|--|---|--|---|---|---|---|---|
| <b>RF615R*** (IP67)</b><br>(internal antenna used)<br>6GT2811-6CC10-0AA0 (ETSI)<br>6GT2811-6CC10-1AA0 (FCC)<br>6GT2811-6CC10-2AA0 (CMIIT)<br><br><b>RF610R*** (IP67)</b><br>(internal antenna used)<br>6GT2811-6BC10-0AA0 (ETSI)<br>6GT2811-6BC10-1AA0 (FCC)<br>6GT2811-6BC10-2AA0 (CMIIT)<br>  | <b>Integrated</b><br>133 x 133 x 45  | 1.0<br>(39)   | 0.8<br>(31)  | 0.6<br>(24)   | 0.6<br>(24)   | 0.6<br>(24)   | 0.7<br>(28)   | 0.5<br>(20)   |
| <b>RF615R*** (IP67)</b><br>(external antenna used)<br>6GT2811-6CC10-0AA0 (ETSI)<br>6GT2811-6CC10-1AA0 (FCC)<br>6GT2811-6CC10-2AA0 (CMIIT)<br><br>Antennas:<br>6GT2 812-0EA00 RF615A, linear, (ETSI)<br>6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT)<br>6GT2 812-2EA00 RF622A, linear, (ETSI)<br>6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT)<br>6GT2 812-1GA08 RF642A, linear, (all readers)<br>6GT2 812-0GB08 RF650A, circular, (all readers)<br>6GT2 812-0AA00 RF660A, circular, (ETSI)<br>6GT2 812-0AA01 RF660A, circular, (FCC, CMIIT)<br>6GT2 812-2GB08 RF680A, switchable, (all readers) | RF615A***<br><br>52 x 52 x 16<br>RF622A***<br><br>75 x 75 x 20<br>RF642A**<br><br>185 x 185 x 45<br>RF650A**<br><br>198 x 198 x 60<br>RF660A**<br><br>313 x 313 x 80<br>RF680A**<br><br>198 x 198 x 60 | 0.5<br>(20)   | 0.4<br>(16)  | 0.4<br>(16)   | 0.2<br>(8)  | 0.2<br>(8)  | 0.4<br>(16)   | 0.2<br>(8)  |
|   |  | 0.6<br>(24)   | 0.4<br>(16)  | 0.4<br>(16)   | 0.2<br>(8)  | 0.2<br>(8)  | 0.5<br>(20)   | 0.2<br>(8)  |
|   |  | 4.0<br>(157)  | 3.0<br>(118)   | 3.0<br>(118)  | 1.6<br>(63)   | 1.8<br>(71)   | 3.0<br>(118)  | 3.0<br>(118)  |
|   |  | 2.0<br>(79)   | 1.4<br>(55)  | 1.0<br>(39)   | 0.9<br>(35)   | 0.8<br>(31)   | 1.2<br>(47)   | 1.6<br>(63)   |
|   |  | 4.0<br>(157)  | 3.0<br>(118)   | 2.5<br>(98)   | 1.4<br>(55)   | 1.6<br>(63)   | 2.5<br>(98)   | 3.0<br>(118)  |
|   |  | 2.0<br>(79)   | 1.6<br>(63)  | 1.0<br>(39)   | 1.0<br>(39)   | 1.0<br>(39)   | 1.6<br>(63)   | 1.6<br>(63)   |
| <b>Accessories</b>  | ** 3-way mounting kit (6GT2 890-2AB10)<br>*** mounting plate (6GT2890-2AC00)   |   |  |   |   |   |   |   |

Maximum operating distance (m) and maximum operating distance (inch)  
 pay attention to the system manual for range overshoot
















\* For detailed size information see technical data

| <b>RF600 Family Matrix Labels</b><br>865-868 MHz (ETSI)<br>902-928 MHz (FCC)<br>Passive Tags (with Gen2 protocol)<br>Operational Temperature Range<br>Dimensions ( L x W x D) mm<br>Ingress Protection (IP) Rating  | <b>Antennas</b>   | <b>RF630L</b><br>6GT2810-2AE83-0AX1<br>448 bit EPC, 256 Byte<br><br>-25°C to 130°C<br>105 x 25<br>IP67 | <b>RF630L</b><br>6GT2810-2AE81-0AX3<br>448 bit EPC, 256 Byte<br><br>-40°C to 120°C<br>75 x 20<br>IP67 | <b>RF635L</b><br>6GT2810-3AC80-1AX0<br>256 bit EPC, 60 byte<br><br>-25°C to 80°C<br>207,4 x 74<br>IP20 | <b>RF642L</b><br>6GT2810-3AC00 (ETSI)<br>6GT2810-3AC10 (FCC)<br>448 bit EPC, 256 byte<br><br>-25°C to 85°C<br>50 x 22.5 x 1.6<br>IP68 | <b>RF682L</b><br>6GT2810-2AG84-0AX0<br>448 bits EPC, 256 Byte<br><br>-40°C to 230°C<br>156 x 40<br>IP67 | <b>RF690L</b><br>6GT2810-2AG00 (ETSI)<br>6GT2810-2AG10 (FCC)<br>96/480 bit EPC, 64 byte<br><br>-25°C to 160°C<br>88 x 25 x 1.6<br>75 x 25 x 1.6<br>IP67 |
|---|---|---|---|---|--|--|--|
| <b>RF615R*** (IP67)</b><br>(internal antenna used)<br>6GT2811-6CC10-0AA0 (ETSI)<br>6GT2811-6CC10-1AA0 (FCC)<br>6GT2811-6CC10-2AA0 (CMIIT)<br><br><b>RF610R*** (IP67)</b><br>(internal antenna used)<br>6GT2811-6BC10-0AA0 (ETSI)<br>6GT2811-6BC10-1AA0 (FCC)<br>6GT2811-6BC10-2AA0 (CMIIT)<br>  | <b>Integrated</b><br>133 x 133 x 45   | <b>0.8</b><br>(31)  | <b>0.5</b><br>(20)  | <b>1.8</b><br>(71)  | <b>0.8</b><br>(31)   | <b>1.0</b><br>(39)   | <b>0.2</b><br>(8)  |
| <b>RF615R*** (IP67)</b><br>(external antenna used)<br>6GT2811-6CC10-0AA0 (ETSI)<br>6GT2811-6CC10-1AA0 (FCC)<br>6GT2811-6CC10-2AA0 (CMIIT)<br><br>Antennas:<br>6GT2 812-0EA00 RF615A, linear, (ETSI)<br>6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT)<br>6GT2 812-2EA00 RF622A, linear, (ETSI)<br>6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT)<br>6GT2 812-1GA08 RF642A, linear, (all readers)<br>6GT2 812-0GB08 RF650A, circular, (all readers)<br>6GT2 812-0AA00 RF660A, circular, (ETSI)<br>6GT2 812-0AA01 RF660A, circular, (FCC, CMIIT)<br>6GT2 812-2GB08 RF680A, switchable, (all readers) | RF615A***<br><br>52 x 52 x 16    | <b>0.4</b><br>(16)  | <b>0.2</b><br>(8)   | <b>0.4</b><br>(16)  | <b>0.2</b><br>(8)  | <b>0.7</b><br>(28)   | <b>0.1</b><br>(4)  |
|   | RF622A***<br><br>75 x 75 x 20    | <b>0.5</b><br>(20)  | <b>0.2</b><br>(8)   | <b>0.5</b><br>(20)  | <b>0.4</b><br>(16)   | <b>0.9</b><br>(35)   | <b>0.1</b><br>(4)  |
|   | RF642A**<br><br>185 x 185 x 45   | <b>3.5</b><br>(138)   | <b>3.0</b><br>(118)   | <b>3.5</b><br>(138)   | <b>2.0</b><br>(79)   | <b>4.5</b><br>(177)  | <b>0.3</b><br>(12)   |
|   | RF650A**<br><br>198 x 198 x 60 | <b>1.4</b><br>(55)  | <b>1.6</b><br>(63)  | <b>3.0</b><br>(118)   | <b>0.8</b><br>(31)   | <b>2.5</b><br>(98)   | <b>0.1</b><br>(4)  |
|   | RF660A**<br><br>313 x 313 x 80 | <b>3.0</b><br>(118)   | <b>3.0</b><br>(118)   | <b>4.5</b><br>(177)   | <b>1.8</b><br>(71)   | <b>4.5</b><br>(177)  | <b>0.3</b><br>(12)   |
|   | RF680A**<br><br>198 x 198 x 60 | <b>1.6</b><br>(63)  | <b>1.6</b><br>(63)  | <b>3.0</b><br>(118)   | <b>1.0</b><br>(39)   | <b>2.5</b><br>(98)   | <b>0.1</b><br>(4)  |
| <b>Accessories</b>  | ** 3-way mounting kit (6GT2 890-2AB10)<br>*** mounting plate (6GT2890-2AC00)                                      |   |   |   |  |  |  |

Maximum operating distance (m) and maximum operating distance (inch)  
 pay attention to the system manual for range overshoot

| <b>RF600 Family Matrix Industrial Tags</b><br>865-868 MHz (ETSI)<br>902-928 MHz (FCC)<br>Passive Tags (with Gen2 protocol)<br><br>Operational Temperature Range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) Rating  | <b>Antennas</b>   | <b>RF610T</b><br>6GT2 810-2BB80<br>96/240 bit EPC,<br>64 byte<br><br><br><br>-40°C to 85°C<br>86 x 54 x 0.4<br>IP67 | <b>RF620T</b><br>6GT2 810-2HC81<br>96/128 bit EPC,<br>64 byte<br><br><br><br>-40°C to 85°C<br>127 x 38 x 6<br>IP67 | <b>RF625T</b><br>6GT2 810-2EE00 (ETSI)<br>6GT2 810-2EE01 (FCC)<br>96/128 bit EPC,<br>64 byte<br><br><br><br>-40°C to 125°C<br>Ø 30 x 8<br>IP68/ IPx9K | <b>RF630T</b><br>6GT2 810-2EC00 (ETSI)<br>6GT2 810-2EC10 (FCC)<br>96/240 bit EPC,<br>64 byte<br><br><br><br>-40°C to 125°C<br>Ø 21x 20<br>IP68/ IPx9K | <b>RF640T</b><br>6GT2 810-2DC00 (ETSI)<br>6GT2 810-2DC10 (FCC)<br>96/240 bit EPC,<br>64 byte<br><br><br><br>-40°C to 125°C<br>Ø 50 x 8<br>IP68/ IPx9K | <b>RF645T</b><br>6GT2 810-2HC05<br>448 bit EPC,<br>256 byte<br><br><br><br>-40°C to 85°C<br>52 x 36 x 12,5<br>IP68 | <b>RF680T</b><br>6GT2 810-2HG80<br>96/240 bit EPC,<br>64 byte<br><br><br><br>-40°C to 220°C<br>130 x 32 x 15<br>IP68/ IPx9K | <b>RF682T</b><br>6GT2810-3HG80<br>256 bit EPC,<br>384 byte<br><br><br><br>-40°C to 220°C<br>130 x 32 x 15<br>IP68/ IPx9K |
|---|---|--|--|--|--|--|---|--|---|
| <b>RF615R*** (IP67)</b><br>(internal antenna used)<br>6GT2811-6CC10-0AA0 (ETSI)<br>6GT2811-6CC10-1AA0 (FCC)<br>6GT2811-6CC10-2AA0 (CMIIT)<br><br><b>RF610R*** (IP67)</b><br>(internal antenna used)<br>6GT2811-6BC10-0AA0 (ETSI)<br>6GT2811-6BC10-1AA0 (FCC)<br>6GT2811-6BC10-2AA0 (CMIIT)  | <b>Integrated</b><br>133 x 133 x 45   | <b>0.8</b><br>(31)   | <b>1.6</b><br>(63)   | <b>0.3</b><br>(12)   | <b>0.3</b><br>(12)   | <b>0.4</b><br>(16)   | <b>1.0</b><br>(39)  | <b>1.0</b><br>(39)   | <b>1.0</b><br>(39)  |
| <b>RF615R*** (IP67)</b><br>(external antenna used)<br>6GT2811-6CC10-0AA0 (ETSI)<br>6GT2811-6CC10-1AA0 (FCC)<br>6GT2811-6CC10-2AA0 (CMIIT)   | RF615A***<br><br>52 x 52 x 16<br><br>RF622A***<br><br>75 x 75 x 20<br><br>RF642A**<br><br>185 x 185 x 45<br><br>RF650A**<br><br>198 x 198 x 60<br><br>RF660A**<br><br>313 x 313 x 80<br><br>RF680A**<br><br>198 x 198 x 60 | <b>0.3</b><br>(12)   | <b>1.0</b><br>(39)   | <b>0.1</b><br>(4)  | <b>0.1</b><br>(4)  | <b>0.2</b><br>(8)  | <b>0.7</b><br>(28)  | <b>0.6</b><br>(24)   | <b>0.4</b><br>(16)  |
| Antennas:<br>6GT2 812-0EA00 RF615A, linear, (ETSI)<br>6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT)<br>6GT2 812-2EA00 RF622A, linear, (ETSI)<br>6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT)<br>6GT2 812-1GA08 RF642A, linear, (all readers)<br>6GT2 812-0GB08 RF650A, circular, (all readers)<br>6GT2 812-0AA00 RF660A, circular, (ETSI)<br>6GT2 812-0AA01 RF660A, circular, (FCC, CMIIT)<br>6GT2 812-2GB08 RF680A, switchable, (all readers) |   | <b>0.4</b><br>(16)   | <b>1.2</b><br>(47)   | <b>0.1</b><br>(4)  | <b>0.2</b><br>(8)  | <b>0.2</b><br>(8)  | <b>0.9</b><br>(35)  | <b>0.7</b><br>(28)   | <b>0.4</b><br>(16)  |
|   |   | <b>3.0</b><br>(118)  | <b>4.0</b><br>(157)  | <b>1.0</b><br>(39)   | <b>0.5</b><br>(20)   | <b>1.4</b><br>(55)   | <b>3.0</b><br>(118)   | <b>4.0</b><br>(157)  | <b>2.5</b><br>(98)  |
|   |   | <b>1.2</b><br>(47)   | <b>3.5</b><br>(138)  | <b>0.2</b><br>(8)  | <b>0.4</b><br>(16)   | <b>0.7</b><br>(28)   | <b>1.6</b><br>(63)  | <b>1.8</b><br>(71)   | <b>1.2</b><br>(47)  |
|   |   | <b>3.0</b><br>(118)  | <b>4.0</b><br>(157)  | <b>0.8</b><br>(31)   | <b>1.0</b><br>(39)   | <b>1.2</b><br>(47)   | <b>3.5</b><br>(138)   | <b>4.0</b><br>(157)  | <b>2.0</b><br>(79)  |
|   |   | <b>1.4</b><br>(55)   | <b>4.0</b><br>(157)  | <b>0.2</b><br>(8)  | <b>0.5</b><br>(20)   | <b>1.2</b><br>(47)   | <b>1.8</b><br>(71)  | <b>2.0</b><br>(79)   | <b>1.2</b><br>(47)  |
| <b>Accessories</b>  | ** 3-way mounting kit (6GT2 890-2AB10)<br>*** mounting plate (6GT2890-2AC00)  | 20 mm Spacer (6GT2 190-0AA00)<br>Fixing pocket (6GT2 190-0AB00)  | Spacer (6GT2 898-2AA00)  |  |  |  | Mounting cover 6GT2898-5AA00<br>Retaining bracket 6GT2898-5AB00   | Retaining bracket 6GT2890-2AA00  | Retaining bracket 6GT2890-2AA00   |

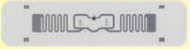

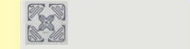











**Maximum operating distance (m)** and maximum operating distance (inch)  
 pay attention to the system manual for range overshoot

| <b>RF600 Family Matrix Labels</b><br>865-868 MHz (ETSI)<br>902-928 MHz (FCC)<br>Passive Tags (with Gen2 protocol)<br>Operational Temperature Range<br>Dimensions ( L x W x D) mm<br>Ingress Protection (IP) Rating   | <b>Antennas</b>  | <b>RF630L</b><br>6GT2 810-2AB02-0AX0<br>128 bits EPC,<br>64 byte<br><br>-40°C to 80°C<br>97 x 27<br>IP65 | <b>RF630L</b><br>6GT2 810-2AE82-0AX0<br>.../-0AX1 /-0AX2 /-1AX0<br>/-2AX0 /-2AX1<br>128 bits EPC<br><br>-25°C to 160°C<br>various sizes*<br>IP67 | <b>RF630L</b><br>6GT2 810-2AE83-1AX0<br>128 bits EPC<br><br>-25°C to 130°C<br>45 x 20<br>IP67 washable | <b>RF630L</b><br>6GT2 810-2AB03<br>96/240 bits EPC,<br>64 byte<br><br>-40°C to 80°C<br>54 x 34<br>IP65 | <b>RF630L</b><br>6GT2 810-2AB04<br>256 bits EPC,<br>64 byte<br><br>-20°C to 160°C<br>74 x 27<br>IP60 | <b>RF630L</b><br>6GT2810-2AB04-0AX1<br>448 bits EPC,<br>256 byte<br><br>-25°C to 130°C<br>101.6 x 50.8<br>IP67 | <b>RF630L</b><br>6GT2 810-2AC84<br>448 bits EPC,<br>256 byte<br><br>-40°C to 85°C<br>73 x 12.5<br>IP67 |
|--|--|---|--|---|---|---|---|---|
| <b>RF685R** (IP65)</b><br>(internal antenna used)<br>6GT2811-6CA10-0AA0 (ETSI)<br>6GT2811-6CA10-1AA0 (FCC)<br>6GT2811-6CA10-2AA0 (CMIIT)<br>6GT2811-6CA10-4AA0 (ARIB)<br>   | <b>Integrated</b><br>260 x 193 x 52  | 6.0<br>(236)  | 5.0<br>(197)   | 4.0<br>(157)  | 3.0<br>(118)  | 3.5<br>(138)  | 5.0<br>(197)  | 5.0<br>(197)  |
| <b>RF685R** (IP65)</b><br>(external antenna used)<br>6GT2811-6CA10-0AA0 (ETSI)<br>6GT2811-6CA10-1AA0 (FCC)<br>6GT2811-6CA10-2AA0 (CMIIT)<br>6GT2811-6CA10-4AA0 (ARIB)<br>   | RF615A***<br><br>52 x 52 x 16   | 1.8 / *1.2<br>(71 / *47)  | 1.2 / *0.8<br>(47 / *31)   | 0.4<br>(16)   | 0.7 / *0.5<br>(28 / *20)  | 0.8 / *0.6<br>(31 / *24)  | 1.2 / *0.7<br>(47 / *28)  | 1.4 / *1.0<br>(55 / *39)  |
| <b>RF680R** (IP65)</b><br>6GT2811-6AA10-0AA0 (ETSI)<br>6GT2811-6AA10-1AA0 (FCC)<br>6GT2811-6AA10-2AA0 (CMIIT)<br>6GT2811-6AA10-4AA0 (ARIB)<br>  | RF622A***<br><br>75 x 75 x 20   | 1.8 / *1.2<br>(71 / *47)  | 1.2 / *0.8<br>(47 / *31)   | 0.4<br>(16)   | 0.8 / *0.5<br>(31 / *20)  | 0.9 / *0.7<br>(35 / *28)  | 1.2 / *0.8<br>(47 / *31)  | 1.4 / *1.0<br>(55 / *39)  |
| <b>RF650R** (IP30)</b><br>6GT2811-6AB20-0AA0 (ETSI)<br>6GT2811-6AB20-1AA0 (FCC)<br>6GT2811-6AB20-2AA0 (CMIIT)<br>6GT2811-6AB20-4AA0 (ARIB)<br>   | RF642A**<br><br>185 x 185 x 45  | 5.0<br>(197)  | 5.0 / *4.5<br>(197 / *177)   | 5.0 / *4.5<br>(197 / *177)  | 3.0<br>(118)  | 3.5<br>(138)  | 5.0 / *4.0<br>(197 / *157)  | 5.0<br>(197)  |
| Antennas:<br>6GT2 812-0EA00 RF615A, linear, (ETSI)<br>6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB)<br>6GT2 812-2EA00 RF622A, linear, (ETSI)<br>6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB)<br>6GT2 812-1GA08 RF642A, linear, (all readers)<br>6GT2 812-0GB08 RF650A, circular, (all readers)<br>6GT2 812-0AA00 RF660A, circular, (ETSI)<br>6GT2 812-0AA01 RF660A, circular, (FCC, CMIIT, ARIB)<br>6GT2 812-2GB08 RF680A, switchable (all readers) | RF650A**<br><br>198 x 198 x 60 | 4.0 / *3.0<br>(157 / *118)  | 3.0 / *2.0<br>(118 / *79)  | 2.0 / *1.2<br>(79 / *47)  | 1.8 / *1.4<br>(71 / *55)  | 2.5 / *1.8<br>(98 / *71)  | 3.0 / *2.0<br>(118 / *79)   | 3.5 / *2.5<br>(138 / *98)   |
| <b>Accessories</b>   | ** 3-way<br>mounting kit<br>(6GT2 890-2AB10)<br>*** mounting plate<br>(6GT2890-2AC00)                            |   |  |   |   |   |   |   |

Maximum operating distance (m) and maximum operating distance (inch)  
 pay attention to the system manual for range overshoot

















\* Use this value in combination with RF650R



| <b>RF600 Family Matrix Labels</b><br>865-868 MHz (ETSI)<br>902-928 MHz (FCC)<br>Passive Tags (with Gen2 protocol)<br>Operational Temperature Range<br>Dimensions ( L x W x D) mm<br>Ingress Protection (IP) Rating   | <b>Antennas</b>  | <b>RF630L</b><br>6GT2810-2AE83-0AX1<br>448 bit EPC, 256 Byte<br><br>-25°C to 130°C<br>105 x 25<br>IP67 | <b>RF630L</b><br>6GT2810-2AE81-0AX3<br>448 bit EPC, 256 Byte<br><br>-40°C to 120°C<br>75 x 20<br>IP67 | <b>RF635L</b><br>6GT2810-3AC80-1AX0<br>256 bit EPC, 60 byte<br><br>-25°C to 80°C<br>207,4 x 74<br>IP20 | <b>RF642L</b><br>6GT2810-3AC00 (ETSI)<br>6GT2810-3AC10 (FCC)<br>448 bit EPC,<br>256 byte<br><br>-25°C to 85°C<br>50 x 22.5 x 1.6<br>IP68 | <b>RF682L</b><br>6GT2810-2AG84-0AX0<br>448 bits EPC, 256 Byte<br><br>-40°C to 230°C<br>156 x 40<br>IP67 | <b>RF690L</b><br>6GT2810-2AG00 (ETSI)<br>6GT2810-2AG10 (FCC)<br>96/496 bit EPC,<br>64 byte<br><br>-25°C to 160°C<br>88 x 25 x 1.6<br>75 x 25 x 1.6<br>IP67 |
|--|--|---|---|---|---|--|---|
| <b>RF685R** (IP65)</b><br>(internal antenna used)<br>6GT2811-6CA10-0AA0 (ETSI)<br>6GT2811-6CA10-1AA0 (FCC)<br>6GT2811-6CA10-2AA0 (CMIIT)<br>6GT2811-6CA10-4AA0 (ARIB)   | <b>Integrated</b><br>260 x 193 x 52  | 5.0<br>(197)  | 5.0<br>(197)  | 6.0<br>(236)  | 2.0<br>(79)   | 6.0<br>(236)   | 3.0<br>(118)  |
| <b>RF685R** (IP65)</b><br>(external antenna used)<br>6GT2811-6CA10-0AA0 (ETSI)<br>6GT2811-6CA10-1AA0 (FCC)<br>6GT2811-6CA10-2AA0 (CMIIT)<br>6GT2811-6CA10-4AA0 (ARIB)   | RF615A***<br><br>52 x 52 x 16   | 1.2 / *0.7<br>(47 / *28)  | 1.4 / *1.0<br>(55 / *39)  | 1.2 / *0.8<br>(47 / *31)  | 0.5 / *0.4<br>(20 / *16)  | 1.6 / *1.2<br>(63 / *47)   | 0.2 / *0.2<br>(8 / *8)  |
| <b>RF680R** (IP65)</b><br>6GT2811-6AA10-0AA0 (ETSI)<br>6GT2811-6AA10-1AA0 (FCC)<br>6GT2811-6AA10-2AA0 (CMIIT)<br>6GT2811-6AA10-4AA0 (ARIB)    | RF622A***<br><br>75 x 75 x 20   | 1.2 / *0.8<br>(47 / *31)  | 1.4 / *1.0<br>(55 / *39)  | 1.4 / *0.9<br>(47 / *35)  | 0.5 / *0.4<br>(20 / *16)  | 1.8 / *1.2<br>(71 / *47)   | 0.3 / *0.2<br>(12 / *8)   |
| <b>RF650R** (IP30)</b><br>6GT2811-6AB20-0AA0 (ETSI)<br>6GT2811-6AB20-1AA0 (FCC)<br>6GT2811-6AB20-2AA0 (CMIIT)<br>6GT2811-6AB20-4AA0 (ARIB)   | RF642A**<br><br>185 x 185 x 45  | 5.0<br>(197)  | 5.0<br>(197)  | 5.0<br>(197)  | 2.0<br>(79)   | 6.0<br>(236)   | 2.0<br>(79)   |
| Antennas:<br>6GT2 812-0EA00 RF615A, linear, (ETSI)<br>6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB)<br>6GT2 812-2EA00 RF622A, linear, (ETSI)<br>6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB)<br>6GT2 812-1GA08 RF642A, linear, (all readers)<br>6GT2 812-0GB08 RF650A, circular, (all readers)<br>6GT2 812-0AA00 RF660A, circular, (ETSI)<br>6GT2 812-0AA01 RF660A, circular, (FCC, CMIIT, ARIB)<br>6GT2 812-2GB08 RF680A, switchable (all readers) | RF650A**<br><br>198 x 198 x 60 | 3.5 / *2.0<br>(138 / *79)   | 3.5 / *2.5<br>(138 / *98)   | 5.0 / *4.0<br>(197 / *157)  | 1.6 / *1.2<br>(63 / *47)  | 4.0 / *3.0<br>(157 / *118)   | 3.5 / *3.0<br>(138 / *118)  |
| <b>Accessories</b>   | ** 3-way<br>mounting kit<br>(6GT2 890-2AB10)<br>*** mounting plate<br>(6GT2890-2AC00)                            |   |   |   |   |  |   |

Maximum operating distance (m) and maximum operating distance (inch)  
 pay attention to the system manual for range overshoot

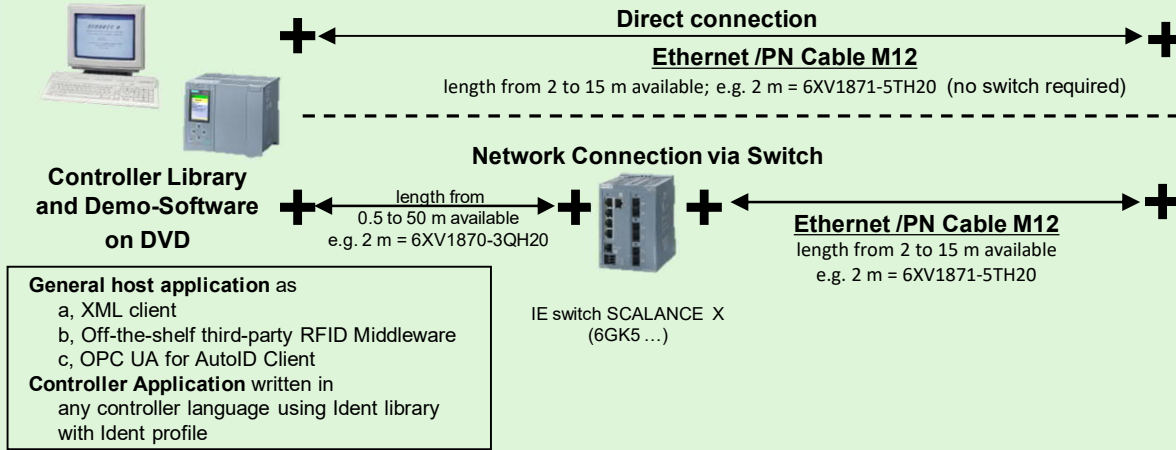
\* Use this value in combination with RF650R

| <b>RF600 Family Matrix Industrial Tags</b><br>865-868 MHz (ETSI)<br>902-928 MHz (FCC)<br>Passive Tags (with Gen2 protocol)<br><br>Operational Temperature Range<br>Dimensions ( L x W x D) mm<br>Ingress Protection (IP) Rating  | <b>Antennas</b>   | <b>RF610T</b><br>6GT2 810-2BB80<br>96/240 bit EPC,<br>64 byte<br><br><br><br>-40°C to 85°C<br>86 x 54 x 0.4<br>IP67 | <b>RF620T</b><br>6GT2 810-2HC81<br>96/128 bit EPC,<br>64 byte<br><br><br><br>-40°C to 85°C<br>127 x 38 x 6<br>IP67 | <b>RF625T</b><br>6GT2 810-2EE00 (ETSI)<br>6GT2 810-2EE01 (FCC)<br>96/128 bit EPC,<br>64 byte<br><br><br><br>-40°C to 125°C<br>Ø 30 x 8<br>IP68/ IPx9K | <b>RF630T</b><br>6GT2 810-2EC00 (ETSI)<br>6GT2 810-2EC10 (FCC)<br>96/240 bit EPC,<br>64 byte<br><br><br><br>-40°C to 125°C<br>Ø 21x 20<br>IP68/ IPx9K | <b>RF640T</b><br>6GT2 810-2DC00 (ETSI)<br>6GT2 810-2DC10 (FCC)<br>96/240 bit EPC,<br>64 byte<br><br><br><br>-40°C to 125°C<br>Ø 50 x 8<br>IP68/ IPx9K | <b>RF645T</b><br>6GT2 810-2HC05<br>448 bit EPC,<br>256 byte<br><br><br><br>-40°C to 85°C<br>52 x 36 x 12,5<br>IP68 | <b>RF680T</b><br>6GT2 810-2HG80<br>96/240 bit EPC,<br>64 byte<br><br><br><br>-40°C to 220°C<br>130 x 32 x 15<br>IP68/ IPx9K | <b>RF682T</b><br>6GT2810-3HG80<br>224 bit EPC,<br>384 byte<br><br><br><br>-40°C to 220°C<br>130 x 32 x 15<br>IP68/ IPx9K |
|--|---|--|--|--|--|--|---|--|---|
| <b>RF685R** (IP65)</b><br>(internal antenna used)<br>6GT2811-6CA10-0AA0 (ETSI)<br>6GT2811-6CA10-1AA0 (FCC)<br>6GT2811-6CA10-2AA0 (CMIIT)<br>6GT2811-6CA10-4AA0 (ARIB)   | <b>Integrated</b><br>260 x 193 x 52   | 5.0<br>(197)   | 7.0<br>(276)   | 2.0<br>(79)  | 2.0<br>(79)  | 3.5<br>(138)   | 6.0<br>(236)  | 5.0<br>(197)   | 4.0<br>(157)  |
| <b>RF685R** (IP65)</b><br>(external antenna used)<br>6GT2811-6CA10-0AA0 (ETSI)<br>6GT2811-6CA10-1AA0 (FCC)<br>6GT2811-6CA10-2AA0 (CMIIT)<br>6GT2811-6CA10-4AA0 (ARIB)   | RF615A***<br><br>52 x 52 x 16    | 1.2 / *0.9<br>(47 / *35)   | 2.5 / *1.8<br>(98 / *71)   | 0.5 / *0.3<br>(20 / *12)   | 0.5 / *0.4<br>(20 / *16)   | 0.8 / *0.6<br>(31 / *24)   | 1.8 / *1.2<br>(71 / *47)  | 1.4 / *1.0<br>(55 / *39)   | 1.0 / *0.7<br>(39 / *28)  |
| <b>RF680R** (IP65)</b><br>6GT2811-6AA10-0AA0 (ETSI)<br>6GT2811-6AA10-1AA0 (FCC)<br>6GT2811-6AA10-2AA0 (CMIIT)<br>6GT2811-6AA10-4AA0 (ARIB)    | RF622A***<br><br>75 x 75 x 20    | 1.4 / *0.9<br>(55 / *35)   | 2.5 / *1.8<br>(98 / *71)   | 0.5 / *0.4<br>(20 / *16)   | 0.5 / *0.4<br>(20 / *16)   | 1.0 / *0.7<br>(39 / *28)   | 2.0 / *1.4<br>(79 / *55)  | 1.6 / *1.2<br>(63 / *47)   | 1.2 / *0.8<br>(47 / *31)  |
| <b>RF650R** (IP30)</b><br>6GT2811-6AB20-0AA0 (ETSI)<br>6GT2811-6AB20-1AA0 (FCC)<br>6GT2811-6AB20-2AA0 (CMIIT)<br>6GT2811-6AB20-4AA0 (ARIB)   | RF642A**<br><br>185 x 185 x 45   | 4.5<br>(177)   | 8.0<br>(315)   | 1.8<br>(71)  | 2.0<br>(79)  | 4.0 / *2.5<br>(157 / *98)  | 6.0<br>(236)  | 5.0<br>(197)   | 4.5<br>(177)  |
| Antennas:<br>6GT2 812-0EA00 RF615A, linear, (ETSI)<br>6GT2 812-0EA01 RF615A, linear, (FCC, CMIIT, ARIB)<br>6GT2 812-2EA00 RF622A, linear, (ETSI)<br>6GT2 812-2EA01 RF622A, linear, (FCC, CMIIT, ARIB)<br>6GT2 812-1GA08 RF642A, linear, (all readers)<br>6GT2 812-0GB08 RF650A, circular, (all readers)<br>6GT2 812-0AA00 RF660A, circular, (ETSI)<br>6GT2 812-0AA01 RF660A, circular, (FCC, CMIIT, ARIB)<br>6GT2 812-2GB08 RF680A, switchable (all readers) | RF650A**<br><br>198 x 198 x 60 | 3.0 / *2.0<br>(118 / *79)  | 5.0 / *4.0<br>(197 / *157)   | 1.4 / *1.0<br>(55 / *39)   | 1.2 / *0.9<br>(47 / *35)   | 2.5 / *2.0<br>(98 / *79)   | 5.0 / *3.5<br>(197 / *138)  | 4.0 / *3.0<br>(157 / *118)   | 2.5 / *2.0<br>(98 / *79)  |
| <b>Accessories</b>   | ** 3-way mounting kit (6GT2 890-2AB10)<br>*** mounting plate (6GT2890-2AC00)                                      | 20 mm Spacer (6GT2 190-0AA00)<br>Fixing pocket (6GT2 190-0AB00)  | Spacer (6GT2 898-2AA00)  |  |  |  | Mounting cover 6GT2898-5AA00<br>Retaining bracket 6GT2898-5AB00   | Retaining bracket 6GT2890-2AA00  | Retaining bracket 6GT2890-2AA00   |

Maximum operating distance (m) and maximum operating distance (inch)  
 pay attention to the system manual for range overshoot

\* Use this value in combination with RF650R

## PROFINET & OPC UA & Ethernet/IP & TCP/IP



## Reader

**Connection with external power supply**



**RF610R**  
 (only internal antenna)  
 6GT2811-6BC10-0AA0 (ETSI)  
 6GT2811-6BC10-1AA0 (FCC)  
 6GT2811-6BC10-2AA0 (CMIIT)



**RF615R**  
 (internal antenna and optional 1 ext. antenna)  
 6GT2811-6CC10-0AA0 (ETSI)  
 6GT2811-6CC10-1AA0 (FCC)  
 6GT2811-6CC10-2AA0 (CMIIT)

**Power supply**  
**EU connector**  
 6GT2 898-0AC00  
**UK connector**  
 6GT2 898-0AC10  
**US connector**  
 6GT2 898-0AC20  
 cable 24 V for power supply  
 5 m = 6GT2 891-0PH50  
**cable w/ open ends**  
 2 m = 6GT2 891-4EH20  
 5 m = 6GT2 891-4EH50

**External antennas:**  
**RF615A**  
 6GT2 812-0EA00; ETSI  
 6GT2 812-0EA01; FCC, etc.  
**RF622A**  
 6GT2812-2EA00, ETSI  
 6GT2812-2EA01, FCC, etc.  
**RF642A**  
 6GT2 812-1GA08  
**RF650A**  
 6GT2 812-0GB08  
**RF660A**  
 6GT2 812-0AA00, ETSI  
 6GT2 812-0AA01, FCC, etc.

**RF680A**  
 6GT2 812-2GB08  
**Antenna Cable**  
 1m = 6GT2815-0BH10  
 3m = 6GT2 815-0BH30  
 5m, flex = 6GT2 815-2BH50  
 10m, 2dB = 6GT2 815-1BN10  
 10m, 4dB = 6GT2 815-0BN10  
 15m, flex = 6GT2 815-2BN15  
 20m = 6GT2 815-0BN20  
 40m = 6GT2 815-0BN40

**Power Splitter**  
 6GT2 890-0BC00  
**DI/DO interface**  
 Use a M12 A-coded connector  
 3RK1902-4BA00-5AA0  
**Cover caps**  
 6GT2898-4AA10

**Opt.: 3-way mounting kit**  
 6GT2890-2AB10  
**Opt.: Mounting plate**  
 6GT2890-2AC00

## Labels

- RF630L**  
 6GT2 810-2AB02-0AX0  
 6GT2 810-2AE82-xxxx  
 6GT2810-2AB04-0AX1  
 6GT2810-2AB04  
 6GT2810-2AC82  
 6GT2810-2AC84  
 6GT2810-2AE83-0AX1  
 6GT2 810-2AE81-0AX3
- RF635L**  
 6GT2810-3AC80-1AX0
- RF642L**  
 6GT2 810-3AC00 (ETSI)  
 6GT2 810-3AC10 (FCC)
- RF682L**  
 6GT2810-2AG84-0AX0
- RF690L**  
 6GT2 810-2AG00 (ETSI)  
 6GT2 810-2AG10 (FCC)

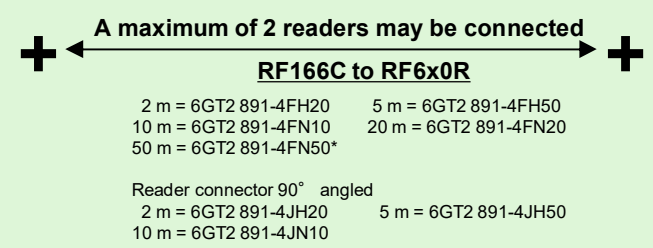
## Tags

- RF610T**  
 6GT2 810-2BB80
- RF620T**  
 6GT2 810-2HC81
- RF625T**  
 6GT2 810-2EE00 (ETSI)  
 6GT2 810-2EE01 (FCC)
- RF630T**  
 6GT2 810-2EC00 (ETSI)  
 6GT2 810-2EC10 (FCC)
- RF640T Gen2**  
 6GT2 810-2DC00 (ETSI)  
 6GT2 810-2DC10 (FCC)
- RF645T**  
 6GT2 810-2HC05
- RF680T**  
 6GT2 810-2HG80
- RF682T**  
 6GT2 810-3HG80

## PROFIBUS

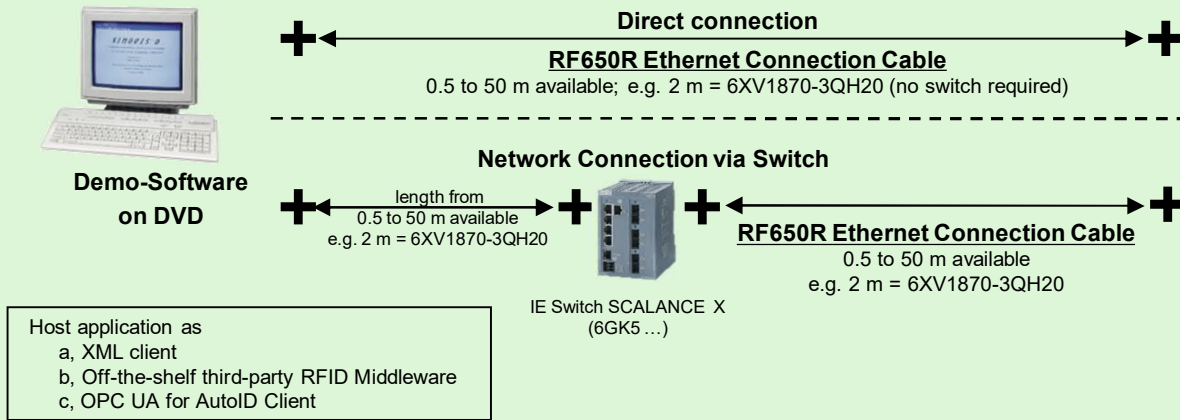


**RF166C (DP-V1)**  
 Communication Module  
 (6GT2 002-0EE20)

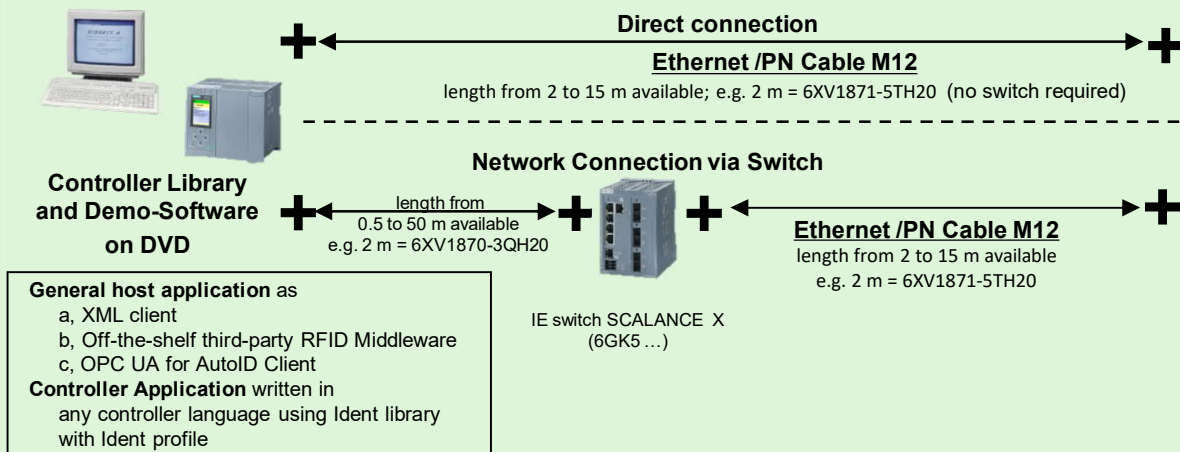


**Powered through connection cable**

## Ethernet TCP/IP



## PROFINET & OPC UA & Ethernet/IP & TCP/IP



## Reader

with external power supply



**RF650R**

(1 to 4 ext. antennas)

- 6GT2811-6AB20-0AA0 (ETSI)
- 6GT2811-6AB20-1AA0 (FCC)
- 6GT2811-6AB20-2AA0 (CMIIT)
- 6GT2811-6AB20-4AA0 (ARIB)



**RF680R**

(1 to 4 ext. antennas)

- 6GT2811-6AA10-0AA0 (ETSI)
- 6GT2811-6AA10-1AA0 (FCC)
- 6GT2811-6AA10-2AA0 (CMIIT)
- 6GT2811-6AA10-4AA0 (ARIB)



**RF685R**

(internal antenna and optional 1 ext. antenna)

- 6GT2811-6CA10-0AA0 (ETSI)
- 6GT2811-6CA10-1AA0 (FCC)
- 6GT2811-6CA10-2AA0 (CMIIT)
- 6GT2811-6CA10-4AA0 (ARIB)

**Cover caps**  
 (6GT2898-4AA10)

**RF615A**

- 6GT2 812-0EA00; ETSI
- 6GT2 812-0EA01; FCC, etc.

**RF622A**

- 6GT2812-2EA00, ETSI
- 6GT2812-2EA01, FCC, etc.

**RF642A**

- 6GT2 812-1GA08

**RF650A**

- 6GT2 812-0GB08

**RF660A**

- 6GT2 812-0AA00, ETSI
- 6GT2 812-0AA01, FCC, etc.

**RF680A**

- 6GT2 812-2GB08

**Antenna Mounting kit**

- 6GT2 890-2AB10

**Antenna Cable**

- 1m = 6GT2815-0BH10
- 3m = 6GT2 815-0BH30
- 5m, flex = 6GT2 815-2BH50
- 10m, 2dB = 6GT2 815-1BN10
- 10m, 4dB = 6GT2 815-0BN10
- 15m, flex = 6GT2 815-2BN15
- 20m = 6GT2 815-0BN20
- 40m = 6GT2 815-0BN40

**Power Splitter**

- 6GT2 890-0BC00  
 (do not use with RF680A)

**Power supply**

**EU connector**

- 6GT2 898-0AC00

**UK connector**

- 6GT2 898-0AC10

**US connector**

- 6GT2 898-0AC20

cable 24 V for power supply

- 5 m = 6GT2 891-0PH50

**cable w/ open ends**

- 2 m = 6GT2 891-4EH20

- 5 m = 6GT2 891-4EH50

**optional**

**DI/DO cable 5m**

- 6GT2891-0CH50

**3-way mounting kit**

- 6GT2890-2AB10

**Mounting plate**

- 6GT2890-2AC00

**Rail mounting set**

- 6GT2890-0AB00

## Labels

**RF630L**

- 6GT2 810-2AB02-0AX0
- 6GT2 810-2AE82-xxxx
- 6GT2810-2AB04-0AX1
- 6GT2810-2AB04
- 6GT2810-2AC82
- 6GT2810-2AC84
- 6GT2810-2AE83-0AX1
- 6GT2 810-2AE81-0AX3

**RF635L**

- 6GT2810-3AC80-1AX0

**RF642L**

- 6GT2 810-3AC00 (ETSI)

**RF682L**

- 6GT2810-2AG84-0AX0

**RF690L**

- 6GT2 810-2AG00 (ETSI)

- 6GT2 810-2AG10 (FCC)

## Tags



**RF610T**

- 6GT2 810-2BB80



**RF620T**

- 6GT2 810-2HC81



**RF625T**

- 6GT2 810-2EE00 (ETSI)

- 6GT2 810-2EE01 (FCC)



**RF630T**

- 6GT2 810-2EC00 (ETSI)

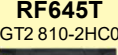
- 6GT2 810-2EC10 (FCC)



**RF640T Gen2**

- 6GT2 810-2DC00 (ETSI)

- 6GT2 810-2DC10 (FCC)



**RF645T**

- 6GT2 810-2HC05



**RF680T**

- 6GT2 810-2HG80



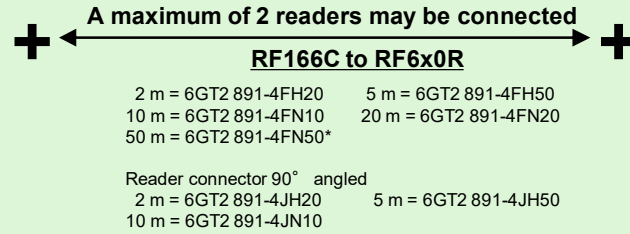
**RF682T**

- 6GT2 810-3HG80

## PROFIBUS



**RF166C (DP-V1)**  
Communication Module  
(6GT2 002-0EE20)



## Reader

powered through connection cable



**RF615A**  
6GT2 812-0EA00; ETSI  
6GT2 812-0EA01; FCC, etc.

**RF622A**  
6GT2812-2EA00, ETSI  
6GT2812-2EA01, FCC, etc.

**RF642A**  
6GT2 812-1GA08

**RF650A**  
6GT2 812-0GB08

**RF660A**  
6GT2 812-0AA00, ETSI  
6GT2 812-0AA01, FCC, etc.

**RF680A**  
6GT2 812-2GB08

**RF680R**  
(1 to 4 ext. antennas)

6GT2811-6AA10-0AA0 (ETSI)  
6GT2811-6AA10-1AA0 (FCC)  
6GT2811-6AA10-2AA0 (CMIIT)  
6GT2811-6AA10-4AA0 (ARIB)



**RF685R**  
(internal antenna and optional 1 ext. antenna)

6GT2811-6CA10-0AA0 (ETSI)  
6GT2811-6CA10-1AA0 (FCC)  
6GT2811-6CA10-2AA0 (CMIIT)  
6GT2811-6CA10-4AA0 (ARIB)

**Cover caps**  
(6GT2898-4AA10)

**Antenna Cable**

1m = 6GT2815-0BH10  
3m = 6GT2 815-0BH30  
5m, flex = 6GT2 815-2BH50  
10m, 2dB = 6GT2 815-1BN10  
10m, 4dB = 6GT2 815-0BN10  
15m, flex = 6GT2 815-2BN15  
20m = 6GT2 815-0BN20  
40m = 6GT2 815-0BN40

**Power Splitter**  
6GT2 890-0BC00  
(do not use with RF680A)

**optional**

**DI/DO cable 5m**  
6GT2891-0CH50

**3-way mounting kit**  
6GT2890-2AB10

**Mounting plate**  
6GT2890-2AC00

**Rail mounting set**  
6GT2890-0AB00

## Labels

**RF630L**

6GT2 810-2AB02-0AX0  
6GT2 810-2AE82-xxxx  
6GT2810-2AB04-0AX1  
6GT2810-2AB04  
6GT2810-2AC82  
6GT2810-2AC84  
6GT2810-2AE83-0AX1  
6GT2 810-2AE81-0AX3

**RF635L**

6GT2810-3AC80-1AX0

**RF642L**

6GT2 810-3AC00 (ETSI)  
6GT2 810-3AC10 (FCC)

**RF682L**

6GT2810-2AG84-0AX0

**RF690L**

6GT2 810-2AG00 (ETSI)  
6GT2 810-2AG10 (FCC)

## Tags



**RF610T**  
6GT2 810-2BB80



**RF620T**  
6GT2 810-2HC81



**RF625T**  
6GT2 810-2EE00 (ETSI)  
6GT2 810-2EE01 (FCC)



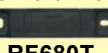
**RF630T**  
6GT2 810-2EC00 (ETSI)  
6GT2 810-2EC10 (FCC)



**RF640T Gen2**  
6GT2 810-2DC00 (ETSI)  
6GT2 810-2DC10 (FCC)



**RF645T**  
6GT2 810-2HC05



**RF680T**  
6GT2 810-2HG80



**RF682T**  
6GT2 810-3HG80

| <b>RF1000</b><br><b>Family Matrix</b><br>13.56 MHz<br>Passive Tags<br><br>Operational temperature range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) rating | <b>D100</b><br>6GT2 600-0AD10<br>112 byte EEPROM<br><br>-25°C to 80°C<br>85,6 x 54 x 0.9<br>IP68 | <b>D200</b><br>6GT2 600-1AD00-0AX0<br>256 byte EEPROM<br><br>-20°C to 60°C<br>85.6 x 54 x 0.8<br>IP67 | <b>D400</b><br>6GT2 600-4AD00<br>2 kbyte FRAM<br><br>-20°C to 60°C<br>85.6 x 54 x 0.8<br>IP67 | <b>D124</b><br>6GT2 600-0AC10<br>112 byte EEPROM<br><br>-40°C to 180°C<br>Ø 27 x 4<br>IP68/ IPx9K | <b>D324</b><br>6GT2 600-3AC00<br>992 byte EEPROM<br><br>-40°C to 140°C<br>Ø 27 x 4<br>IP67 | <b>D424</b><br>6GT2 600-4AC00<br>2 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 27 x 4<br>IP67/ IPx9K | <b>D524</b><br>6GT2 600-5AC00<br>8 kByte FRAM<br><br>-40°C to 100°C<br>Ø 27 x 4<br>IP67 / IPx9k |
|--|---|--|---|--|---|---|--|
| <b>RF1040R</b> (USB, RS232)<br>6GT2831-6CA50<br>                                      | 30<br>(1.18)  | 30<br>(1.18)   | 30<br>(1.18)  | 10<br>(0.39)   | 10<br>(0.39)  | 10<br>(0.39)  | 10<br>(0.39)   |
| <b>RF1060R</b> (USB)<br>6GT2831-6AA50<br>   | 30<br>(1.18)  | 30**<br>(1.18)   | 30<br>(1.18)  | 10<br>(0.39)   | 10<br>(0.39)  | 10<br>(0.39)  | 10<br>(0.39)   |
| <b>RF1070R</b> (USB, RS232)<br>6GT2831-6BA50<br>6GT2831-6BA50-0AX0 (OEM*)<br>         | 30<br>(1.18)  | 30<br>(1.18)   |   | 10<br>(0.39)   | 10<br>(0.39)  |   |  |

\* ATEX not valid for OEM type)

\*\* only for read-only access

**Maximum Distance for Stationary Tag (mm)**

Maximum Distance for Stationary Tag (inch)

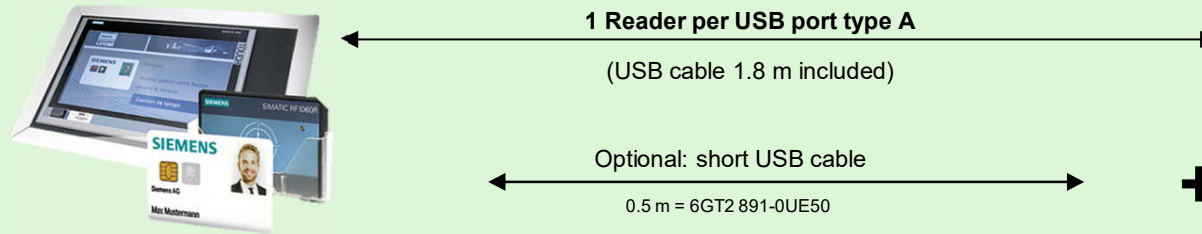
| <b>RF1000</b><br><b>Family Matrix</b><br>13.56 MHz and<br>125 kHz passive tags<br><br>Operational temperature range<br>Dimensions (L x W x D) mm<br>Ingress Protection (IP) rating | <b>D126</b><br>6GT2 600-0AE00<br>112 byte EEPROM<br><br>-40°C to 100°C<br>Ø 50 x 3.6<br>IP68 | <b>D426</b><br>6GT2 600-4AH00<br>2 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 50 x 3.6<br>IP68 | <b>D526</b><br>6GT2 600-5AH00<br>8 kbyte FRAM<br><br>-40°C to 100°C<br>Ø 50 x 3.6<br>IP68 | <b>E600</b><br>6GT2 300-0AA00<br>752 byte EEPROM<br><br>-25°C to 60°C<br>86 x 54 x 0.76<br>IP68 | <b>E611</b><br>6GT2 300-0BB00<br>752 byte EEPROM<br><br>-40°C to 85°C<br>86 x 54 x 2.5<br>IP67 | <b>ISO 14443</b><br><br>Company badges<br>and transponders<br>acc. ISO 14443 A/B | <b>Legic</b><br><br>Company badges<br>and Transponders<br>acc. Legic Prime<br>and Legic Advant | <b>125 kHz (LF)</b><br><br>Company badges<br>and Transponders<br>acc. Hitag 1/2/S<br>EM41xx, EKS and more |
|--|---|--|---|--|---|---|---|--|
| <b>RF1040R</b> (USB, RS232)<br>6GT2831-6CA50<br>  | 30<br>(1.18)  | 30<br>(1.18)   | 30<br>(1.18)  | 30<br>(1.18)   | 30<br>(1.18)  | 30<br>(1.18)  |   | 30<br>(1.18)   |
| <b>RF1060R</b> (USB)<br>6GT2831-6AA50<br>   | 30<br>(1.18)  | 30<br>(1.18)   | 30<br>(1.18)  | 30<br>(1.18)   | 30<br>(1.18)  | 30<br>(1.18)  |   |  |
| <b>RF1070R</b> (USB, RS232)<br>6GT2831-6BA50<br>6GT2831-6BA50-0AX0 (OEM*)<br>                     | 30<br>(1.18)  |  |   | 30<br>(1.18)   | 30<br>(1.18)  | 30<br>(1.18)  | 30<br>(1.18)  |  |

\* ATEX not valid for OEM type)

### Maximum Distance for Stationary Tag (mm)

Maximum Distance for Stationary Tag (inch)

## USB



### DLL and simple Demo for PC:

<https://support.industry.siemens.com/cs/ww/en/view/109741590>

### Local user administration for Comfort Panels and IPC:

<https://support.industry.siemens.com/cs/de/en/view/109754400>  
(included in SIMATIC HMI Option+)

### Central user management PM Logon

<https://www.siemens.com/pm-logon>  
<https://support.industry.siemens.com/cs/ww/en/view/109779685>

### SIMATIC Logon / Logon Remote Access

<https://support.industry.siemens.com/cs/ww/en/view/109749167>

## Reader

Powered through USB cable

**Optional:**

**Card holder**  
6GT2 890-0CA00

**Config-Card**  
(for customer-specific reader configuration)  
6GT2300-0CC00-0AX0

**Extension unit IP65 for operator controls**

12" 6AV7674-1LA31-0AA0  
15" 6AV7674-1LA41-0AA0  
19" 6AV7674-1LA51-0AA0  
22" 6AV7674-1LA61-0AA0

**Housing for desktop and wall mounting**  
6GT2890-0CB00 \*\*\*\*\*

**Cleanroom cap**  
(no usage with card holder)

**for wall mount**  
6GT2890-0CC00 \*\*\*\*\*  
requires 6GT2890-0CB00

**for control cabinet mount**  
6GT2890-0CD00 \*\*\*\*\*

\*\*\*\* ATEX not valid for OEM type)  
\*\*\*\*\* planned for November 2021

## Tags

**D100** (6GT2 600-0AD10)  
**D200** (6GT2 600-1AD00-0AX0)  
**D400** (6GT2 600-4AD00)\*

**D124** (6GT2 600-0AC10)  
**D324** (6GT2 600-3AC00)  
**D424** (6GT2 600-4AC00)\*  
**D524** (6GT2 600-5AC00)\*

**D126** (6GT2 600-0AE00)  
**D426** (6GT2 600-4AH00)\*  
**D526** (6GT2 600-5AH00)\*

**ISO 14443**

**Company badges and transponders acc. ISO 14443 A/B Incl. MDS E600/E611**

**ISO 15693**

**Transponders acc. ISO 15693**

**Legic Prime \*\*)**

**Company badges and Transponders acc. Legic Prime and Legic Advant**

**LF RFID \*\*\*)**

**Company badges and Transponders acc. Hitag 1/2/S, EM41xx, EKS and more**

**Tag restrictions:**  
\* not for RF1070R  
\*\* only with RF1070R  
\*\*\* only with RF1040R



## PROFINET & Ethernet/IP

### Communication Modules



A maximum of  
1 reader at RF185C,  
2 readers at RF186C/CI, RF188C/CI  
of RF1000 may be connected (RS232)

Connection cable:  
2m = 6GT2891-4UH20  
(do not use an additional  
extension cable)

### Additional IOs



**RF18xCI to sensor**  
Sensor cable from  
0.5 to 15 m available  
(e.g. 2 m = 6XV1801-2CH20)

### Types of IO-Link IO module

IO-extension module  
6ES7 14..... (up to 8xDI + 8xDO)

See page 76 for detailed information

Or one  
Standard sensor

Or one  
Actor

## PROFIBUS



A maximum of 2 readers  
may be connected (RS232)

Connection cable:  
2m = 6GT2891-4UH20  
(do not use an additional  
extension cable)

## Reader

Powered through connection cable



**RF1040R**  
(6GT2 831-6CA50)



**RF1070R**  
(6GT2 831-6BA50)  
(6GT2 831-6BA50-0AX0,  
OEM\*\*\*\*)

### Optional:



**Card holder**  
6GT2 890-0CA00



**Config-Card**  
(for customer-specific  
reader configuration)  
6GT2300-0CC00-0AX0



**Extension unit IP65  
for operator controls**

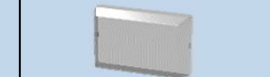
- 12" 6AV7674-1LA31-0AA0
- 15" 6AV7674-1LA41-0AA0
- 19" 6AV7674-1LA51-0AA0
- 22" 6AV7674-1LA61-0AA0



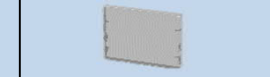
**Housing for desktop  
and wall mounting**  
6GT2890-0CB00 \*\*\*\*\*



**Cleanroom cap**  
(no usage with card holder)

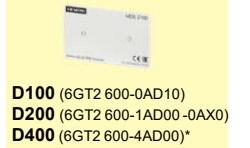


**for wall mount**  
6GT2890-0CC00 \*\*\*\*\*  
requires 6GT2890-0CB00

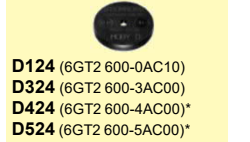


**for control cabinet mount**  
6GT2890-0CD00 \*\*\*\*\*

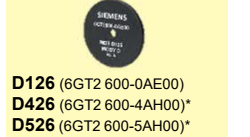
## Tags



**D100** (6GT2 600-0AD10)  
**D200** (6GT2 600-1AD00-0AX0)  
**D400** (6GT2 600-4AD00\*)



**D124** (6GT2 600-0AC10)  
**D324** (6GT2 600-3AC00)  
**D424** (6GT2 600-4AC00\*)  
**D524** (6GT2 600-5AC00\*)



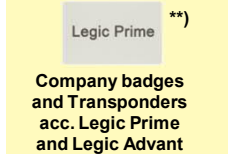
**D126** (6GT2 600-0AE00)  
**D426** (6GT2 600-4AH00\*)  
**D526** (6GT2 600-5AH00\*)



**ISO 14443**  
**Company badges  
and transponders  
acc. ISO 14443 A/B  
Incl. MDS E600/E611**



**ISO 15693**  
**Transponders  
acc. ISO 15693**



**Legic Prime \*\*)**  
**Company badges  
and Transponders  
acc. Legic Prime  
and Legic Advant**



**LF RFID \*\*\*)**  
**Company badges  
and Transponders  
acc. Hitag 1/2/S,  
EM41xx, EKS and more**

**Tag restrictions:**  
\* not for RF1070R  
\*\* only with RF1070R  
\*\*\* only with RF1040R

\*\*\*\* ATEX not valid for OEM type)  
\*\*\*\*\* planned for November 2021

## SIMATIC PLC S7-1200



**RF120C**  
6GT2 002-0LA00

Up to 3 x RF120C modules  
per S7-1200 rack



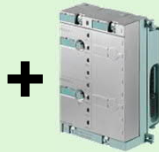
A maximum of 1 readers may be connected  
**RF120C to RF10x0R**  
2 m = 6GT2891-6UH20



## ET 200pro via PROFIBUS or PROFINET or S7 PLC

- ET 200pro PROFIBUS DP-V1  
Interface Modul
- ET 200pro PROFINET  
Interface Modul
- ET 200pro PROFINET  
CPU module

Up to 9 x RF170C  
modules per  
ET 200pro rack



**RF170C**  
Communication module  
(6GT2002-0HD01)  
Connection block  
(6GT2002-1HD01)



A maximum of 2 readers  
may be connected (RS232)

Connection cable:  
2m = 6GT2891-4UH20  
(do not use an additional  
extension cable)

Use standard function  
block Ident Profile

Application example available:  
<https://support.industry.siemens.com/cs/ww/de/view/109770535>

## ET 200SP via serial modul

(example; also useful for the connection to other serial modules)



**Serial interface RS232**  
6ES7137-6AA00-0BA0



**LOGO POWER 220V/5V**  
6EP3310-6SB00-0AY0  
The max. current of 3 A may supply up to 10 Reader

A maximum of 1 reader per serial module  
may be connected (RS232)

Connection cable:  
3m = 6GT2891-2UH30  
(do not use an additional  
extension cable)

Use : P2P\_Send and P2P\_Receive  
for programming

## Reader

Powered through connection cable



**RF1040R**  
(6GT2 831-6CA50)



**RF1070R**  
(6GT2 831-6BA50)  
(6GT2 831-6BA50-0AX0,  
OEM\*\*\*\*)

### Optional:



**Card holder**  
6GT2 890-0CA00

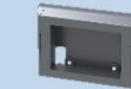


**Config-Card**  
(for customer-specific  
reader configuration)  
6GT2300-0CC00-0AX0



**Extension unit IP65  
for operator controls**

- 12" 6AV7674-1LA31-0AA0
- 15" 6AV7674-1LA41-0AA0
- 19" 6AV7674-1LA51-0AA0
- 22" 6AV7674-1LA61-0AA0

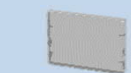


**Housing for desktop  
and wall mounting**  
6GT2890-0CB00 \*\*\*\*\*

**Cleanroom cap  
(no usage with card holder)**



**for wall mount**  
6GT2890-0CC00 \*\*\*\*\*  
requires 6GT2890-0CB00



**for control cabinet mount**  
6GT2890-0CD00 \*\*\*\*\*

## Tags



**D100** (6GT2 600-0AD10)  
**D200** (6GT2 600-1AD00 -0AX0)  
**D400** (6GT2 600-4AD00)\*



**D124** (6GT2 600-0AC10)  
**D324** (6GT2 600-3AC00)  
**D424** (6GT2 600-4AC00)\*  
**D524** (6GT2 600-5AC00)\*



**D126** (6GT2 600-0AE00)  
**D426** (6GT2 600-4AH00)\*  
**D526** (6GT2 600-5AH00)\*



**Company badges  
and transponders  
acc. ISO 14443 A/B  
Incl. MDS E600/E611**



**Transponders  
acc. ISO 15693**



**Company badges  
and Transponders  
acc. Legic Prime  
and Legic Advant**



**Company badges  
and Transponders  
acc. Hitag 1/2/S,  
EM41xx, EKS and more**

**Tag restrictions:**



\* not for RF1070R



\*\* only with RF1070R

\*\*\* only with RF1040R




\*\*\*\* ATEX not valid for OEM type)  
\*\*\*\*\* planned for November 2021

## RF350M

| Packaged Systems  |   | Additional Components   | Spare Parts                           |
|---|---|---|---------------------------------------|
| Packaged Systems include Handheld unit, RFID read/ write head, and battery  |   | <b>Docking/ Charging Unit</b>  6GT2803-0BM00 | <b>Spare Battery</b><br>6GT2803-0CA00 |
|  <b>RF350M</b><br>internal antenna | <b>6GT2 803-1BA00</b><br>suitable for RF200, RF300, MDS E* and MDS D tags, except for D117, D127, D421, D422 and E623 |   |                                       |

| Packaged Systems   |   | Additional Components   | Spare Parts                           |                  |  |  |                       |      |              |       |                    |  |        |                    |                        |       |                |                  |           |                |  |           |                |  |        |                |  |                |      |              |       |                |                             |       |                |                                  |     |                |                             |  |
|--|---|---|---------------------------------------|------------------|--|--|-----------------------|------|--------------|-------|--------------------|--|--------|--------------------|------------------------|-------|----------------|------------------|-----------|----------------|--|-----------|----------------|--|--------|----------------|--|----------------|------|--------------|-------|----------------|-----------------------------|-------|----------------|----------------------------------|-----|----------------|-----------------------------|--|
| Packaged Systems include Handheld unit, RFID read/ write head, and battery<br><b>(Antenna and cable for usage is not included)</b> |   | <b>Docking/ Charging Unit</b>  6GT2803-0BM00   | <b>Spare Battery</b><br>6GT2803-0CA00 |                  |  |  |                       |      |              |       |                    |  |        |                    |                        |       |                |                  |           |                |  |           |                |  |        |                |  |                |      |              |       |                |                             |       |                |                                  |     |                |                             |  |
| <br><b>RF350M</b><br>external antenna            | <b>6GT2 803-1BA10</b><br>Needs external antenna with antenna cable for usage<br><br>suitable for RF200, RF300, MDS E* and MDS D tags according table in right column<br><br>*) from hardware version AS02:<br>MDS E and MDS D5xx transponders are supported | <table border="1"> <thead> <tr> <th colspan="3">External Antenna</th> </tr> <tr> <th>Antenna without cable</th> <th>MLFB</th> <th>Suitable for</th> </tr> </thead> <tbody> <tr> <td>Ant 3</td> <td>6GT2398-1CD30-0AX0</td> <td>D124, D160, D324, D422, D423, D424, D425, D428, D460, D522, D524, D525, D528, E624, RF320T, RF330T, RF340T, RF350T, RF360T</td> </tr> <tr> <td>Ant 3S</td> <td>6GT2398-1CD50-0AX0</td> <td>D117, D127, D421, D521</td> </tr> <tr> <td>Ant 8</td> <td>6GT2 398-1CF00</td> <td>D117, D127, D421</td> </tr> <tr> <td>Ant 12 **</td> <td>6GT2 398-1DC00</td> <td>D117, D127, D160, D421, D428, D460, D521, D528, E623, RF330T</td> </tr> <tr> <td>Ant 18 **</td> <td>6GT2 398-1DA00</td> <td>D117, D124, D127, D160, D324, D421, D422, D424, D425, D428, D460, D521, D522, D524, D525, D528, E623, E624, RF320T, RF330T, RF340T</td> </tr> <tr> <td>Ant 30</td> <td>6GT2 398-1DD00</td> <td>D124, D126, D160, D324, D422, D423, D424, D425, D426, D428, D460, D522, D524, D525, D526, D528, E624, RF320T, RF330T, RF340T, RF350T, RF360T</td> </tr> <tr> <th>Antenna cables</th> <th>MLFB</th> <th>Suitable for</th> </tr> <tr> <td>0.1 m</td> <td>6GT2 898-0EA00</td> <td>For all antenna types above</td> </tr> <tr> <td>0.6 m</td> <td>6GT2 391-0AE60</td> <td>Only for antennas marked with **</td> </tr> <tr> <td>3 m</td> <td>6GT2 391-0AH30</td> <td>For all antenna types above</td> </tr> </tbody> </table> |                                       | External Antenna |  |  | Antenna without cable | MLFB | Suitable for | Ant 3 | 6GT2398-1CD30-0AX0 | D124, D160, D324, D422, D423, D424, D425, D428, D460, D522, D524, D525, D528, E624, RF320T, RF330T, RF340T, RF350T, RF360T | Ant 3S | 6GT2398-1CD50-0AX0 | D117, D127, D421, D521 | Ant 8 | 6GT2 398-1CF00 | D117, D127, D421 | Ant 12 ** | 6GT2 398-1DC00 | D117, D127, D160, D421, D428, D460, D521, D528, E623, RF330T | Ant 18 ** | 6GT2 398-1DA00 | D117, D124, D127, D160, D324, D421, D422, D424, D425, D428, D460, D521, D522, D524, D525, D528, E623, E624, RF320T, RF330T, RF340T | Ant 30 | 6GT2 398-1DD00 | D124, D126, D160, D324, D422, D423, D424, D425, D426, D428, D460, D522, D524, D525, D526, D528, E624, RF320T, RF330T, RF340T, RF350T, RF360T | Antenna cables | MLFB | Suitable for | 0.1 m | 6GT2 898-0EA00 | For all antenna types above | 0.6 m | 6GT2 391-0AE60 | Only for antennas marked with ** | 3 m | 6GT2 391-0AH30 | For all antenna types above |  |
|  |   | External Antenna  |                                       |                  |  |  |                       |      |              |       |                    |  |        |                    |                        |       |                |                  |           |                |  |           |                |  |        |                |  |                |      |              |       |                |                             |       |                |                                  |     |                |                             |  |
| Antenna without cable  | MLFB  | Suitable for  |                                       |                  |  |  |                       |      |              |       |                    |  |        |                    |                        |       |                |                  |           |                |  |           |                |  |        |                |  |                |      |              |       |                |                             |       |                |                                  |     |                |                             |  |
| Ant 3  | 6GT2398-1CD30-0AX0  | D124, D160, D324, D422, D423, D424, D425, D428, D460, D522, D524, D525, D528, E624, RF320T, RF330T, RF340T, RF350T, RF360T  |                                       |                  |  |  |                       |      |              |       |                    |  |        |                    |                        |       |                |                  |           |                |  |           |                |  |        |                |  |                |      |              |       |                |                             |       |                |                                  |     |                |                             |  |
| Ant 3S   | 6GT2398-1CD50-0AX0  | D117, D127, D421, D521  |                                       |                  |  |  |                       |      |              |       |                    |  |        |                    |                        |       |                |                  |           |                |  |           |                |  |        |                |  |                |      |              |       |                |                             |       |                |                                  |     |                |                             |  |
| Ant 8  | 6GT2 398-1CF00  | D117, D127, D421  |                                       |                  |  |  |                       |      |              |       |                    |  |        |                    |                        |       |                |                  |           |                |  |           |                |  |        |                |  |                |      |              |       |                |                             |       |                |                                  |     |                |                             |  |
| Ant 12 **  | 6GT2 398-1DC00  | D117, D127, D160, D421, D428, D460, D521, D528, E623, RF330T  |                                       |                  |  |  |                       |      |              |       |                    |  |        |                    |                        |       |                |                  |           |                |  |           |                |  |        |                |  |                |      |              |       |                |                             |       |                |                                  |     |                |                             |  |
| Ant 18 **  | 6GT2 398-1DA00  | D117, D124, D127, D160, D324, D421, D422, D424, D425, D428, D460, D521, D522, D524, D525, D528, E623, E624, RF320T, RF330T, RF340T  |                                       |                  |  |  |                       |      |              |       |                    |  |        |                    |                        |       |                |                  |           |                |  |           |                |  |        |                |  |                |      |              |       |                |                             |       |                |                                  |     |                |                             |  |
| Ant 30   | 6GT2 398-1DD00  | D124, D126, D160, D324, D422, D423, D424, D425, D426, D428, D460, D522, D524, D525, D526, D528, E624, RF320T, RF330T, RF340T, RF350T, RF360T  |                                       |                  |  |  |                       |      |              |       |                    |  |        |                    |                        |       |                |                  |           |                |  |           |                |  |        |                |  |                |      |              |       |                |                             |       |                |                                  |     |                |                             |  |
| Antenna cables   | MLFB  | Suitable for  |                                       |                  |  |  |                       |      |              |       |                    |  |        |                    |                        |       |                |                  |           |                |  |           |                |  |        |                |  |                |      |              |       |                |                             |       |                |                                  |     |                |                             |  |
| 0.1 m  | 6GT2 898-0EA00  | For all antenna types above   |                                       |                  |  |  |                       |      |              |       |                    |  |        |                    |                        |       |                |                  |           |                |  |           |                |  |        |                |  |                |      |              |       |                |                             |       |                |                                  |     |                |                             |  |
| 0.6 m  | 6GT2 391-0AE60  | Only for antennas marked with **  |                                       |                  |  |  |                       |      |              |       |                    |  |        |                    |                        |       |                |                  |           |                |  |           |                |  |        |                |  |                |      |              |       |                |                             |       |                |                                  |     |                |                             |  |
| 3 m  | 6GT2 391-0AH30  | For all antenna types above   |                                       |                  |  |  |                       |      |              |       |                    |  |        |                    |                        |       |                |                  |           |                |  |           |                |  |        |                |  |                |      |              |       |                |                             |       |                |                                  |     |                |                             |  |

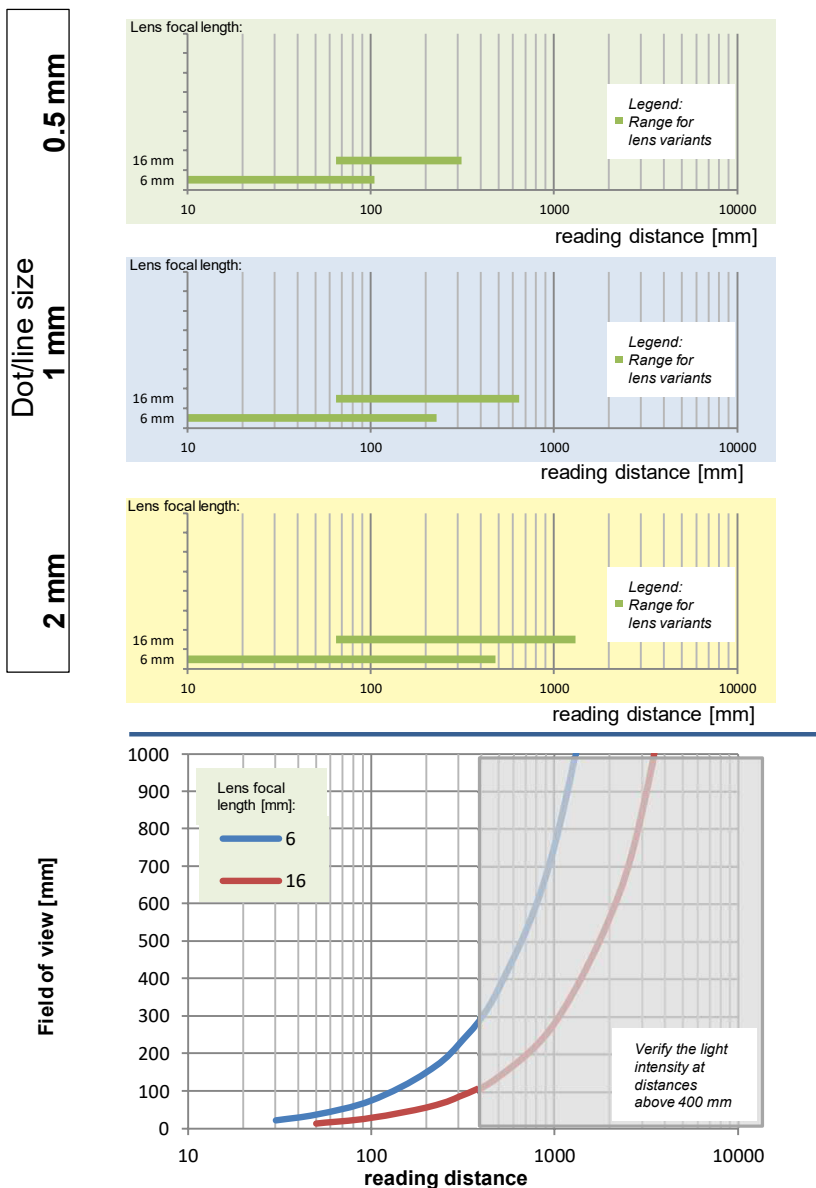
## RF600

| Packaged Systems  |                              | Additional Components  | Spare Parts                         |
|---|------------------------------|--|-------------------------------------|
| Packaged Systems include Handheld unit, RFID read/ write head, integrated WLAN and battery      |                              | <b>Docking/ Charging Unit</b>  6GT2 898-0BB00 |                                     |
|  <b>RF650M</b> | <b>6GT2 813-0CA00 (ETSI)</b> |  | <b>Spare Battery</b> 6GT2 898-0CB00 |
|  <b>RF650M</b> | <b>6GT2 813-0CA10 (FCC)</b>  |  |                                     |

- Steps for selecting lens:**
1. Define the smallest dot size on DMC code or line width at barcode. Use the horizontal graph next to your size selection in the upper section
  2. Define the reading distance and draw a vertical line with a ruler (note: SR-B and SR-P have use the same diagrams)
  3. Select a lens and a camera type combination in the upper diagrams which fit best (green bars crossing)
  4. Verify at the lower diagrams that the field of view is within the range of your application

Note: For a more detailed selection or if your application is out the presented range ask the presales team at [presales.ci.industry@siemens.com](mailto:presales.ci.industry@siemens.com)

Basic Models: **SR-B** (6GF3420-0AA20) or **SR-P** (6GF3420-0AA40)



## MV420, MV440 and MV500: light and filter selection

| light and filter selection | Information for selection   | MV420              | MV440   | MV500   |
|----------------------------|---|--------------------|---|---|
| Red light                  | The most popular light with a high light intensity                                    | 6GF3420-0AC00-1LT0 | 6GF3440-8DA11;<br>6GF3400-0LT01-8DA1 (external) | 6GF3540-8DA11 (Basic)<br>6GF3540-8DA13 (Multi)<br>6GF3400-0LT01-8DA1 (external) |
| White light                | Use white light if the color of the objects varies                                    | 6GF3420-0AC00-2LT0 | 6GF3440-8DA21                                   | 6GF3540-8DA23 (Multi)   |
| Green light                | For usage with PCB and other green materials marked with dark codes                   |                    | 6GF3440-8DA31                                   |   |
| Infrared light             | No bothersome flashes   | 6GF3420-0AC00-3LT0 | 6GF3440-8DA41;<br>6GF3400-0LT01-7BA1 (external) | 6GF3540-8DA41 (Basic)<br>6GF3400-0LT01-7BA1 (external)                          |
| Red filter                 | Using red light and red filter is improving the image quality                         |                    |   | 6GF3540-8AC51<br>6GF3540-8AC52  |
| Infrared filter            | The usage together with infrared light filters completely the influence of daylight   |                    | 6GF9001-2AD                                     | 6GF3540-8AC41<br>6GF3540-8AC42  |
| Daylight filter (UVIRcut)  | For protection of the camera against laser light beyond the visible spectrum          |                    | 6GF3440-8EA1                                    | 6GF3540-8AC31<br>6GF3540-8AC32  |
| Polarization filter        | Use this filter to reduce reflections at metallic or shiny parts (i.e. plastic foils) |                    | 6GF9001-2AF<br>6GF3440-8CX3                     | Included in Multi-lights  |

- Steps for selecting lens:**
1. Define the smallest dot size on DMC code or line width at barcode. Use the horizontal graphs next to your size selection in the upper section
  2. Define the reading distance and draw a vertical line with a ruler at every camera type (SR, HR, UR)
  3. Select a lens and a camera type combination in the upper diagrams which fit best (green bar crossing or red bar crossing (intermediate rings (IR) required))
  4. Verify at the lower diagrams that the field of view is within the range of your application

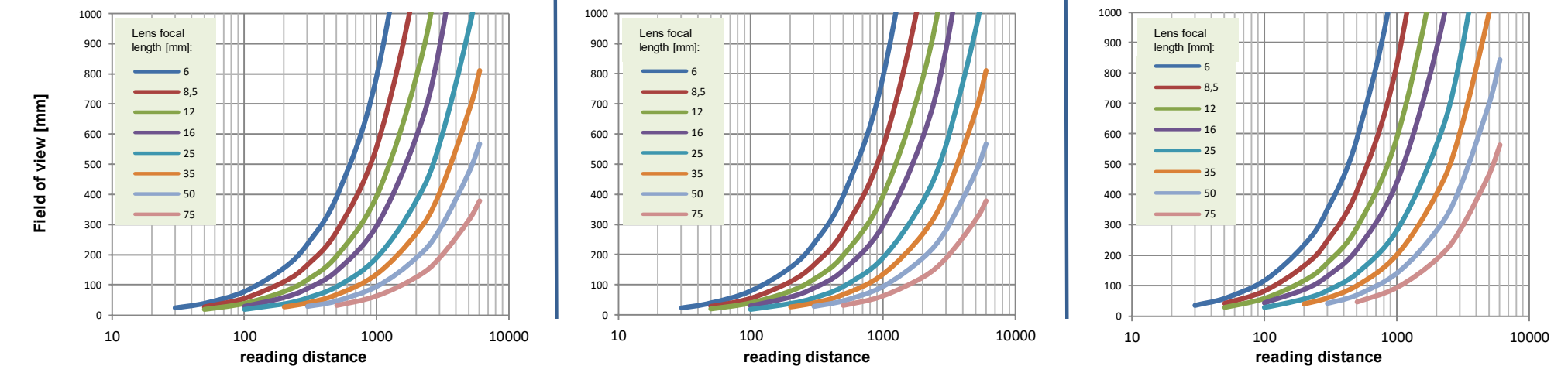
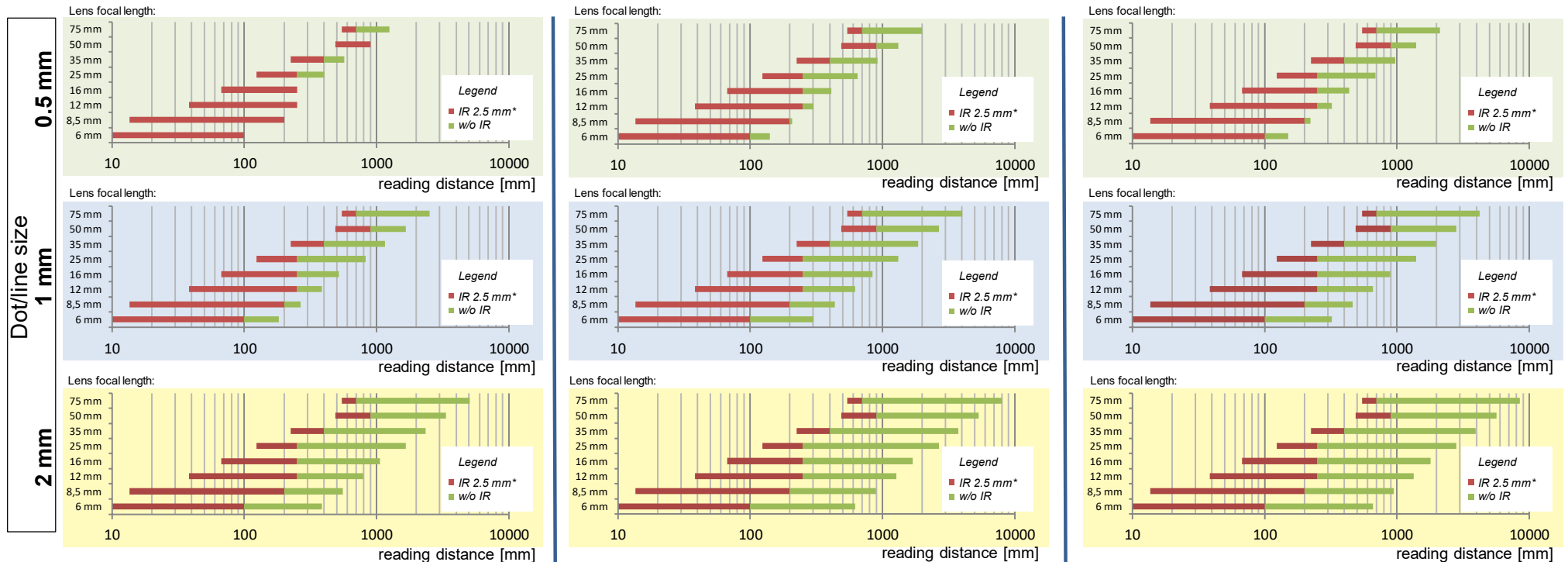
Note: For a more detailed selection or if your application is out the presented range ask the presales team at [presales.ci.industry@siemens.com](mailto:presales.ci.industry@siemens.com)

Basic Models:

**SR** (6GF3440-1CD10)

**HR** (6GF3440-1GE10)

**UR** (6GF3440-1LE10)



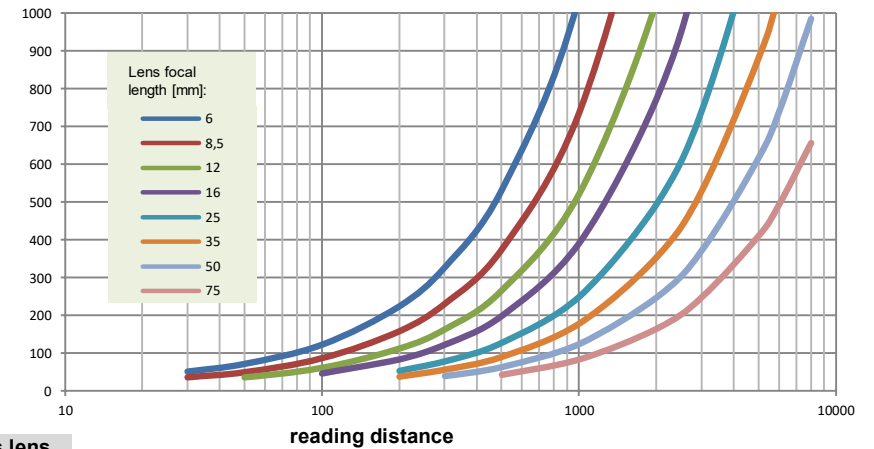
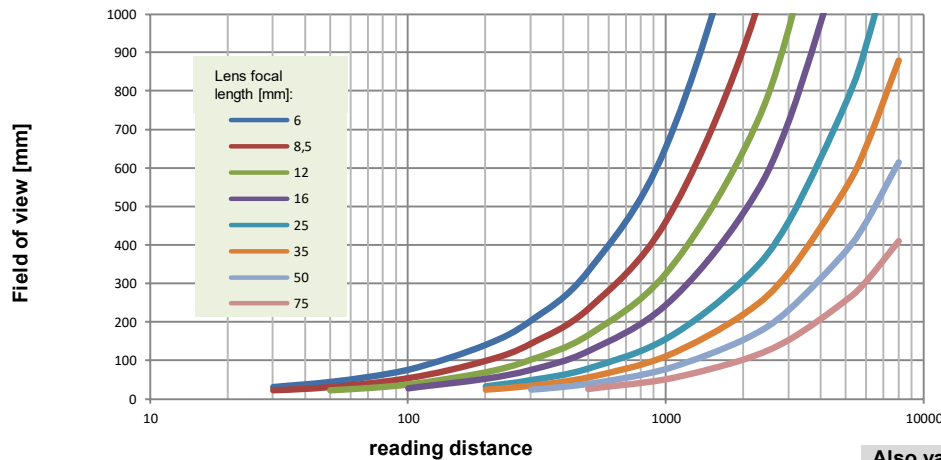
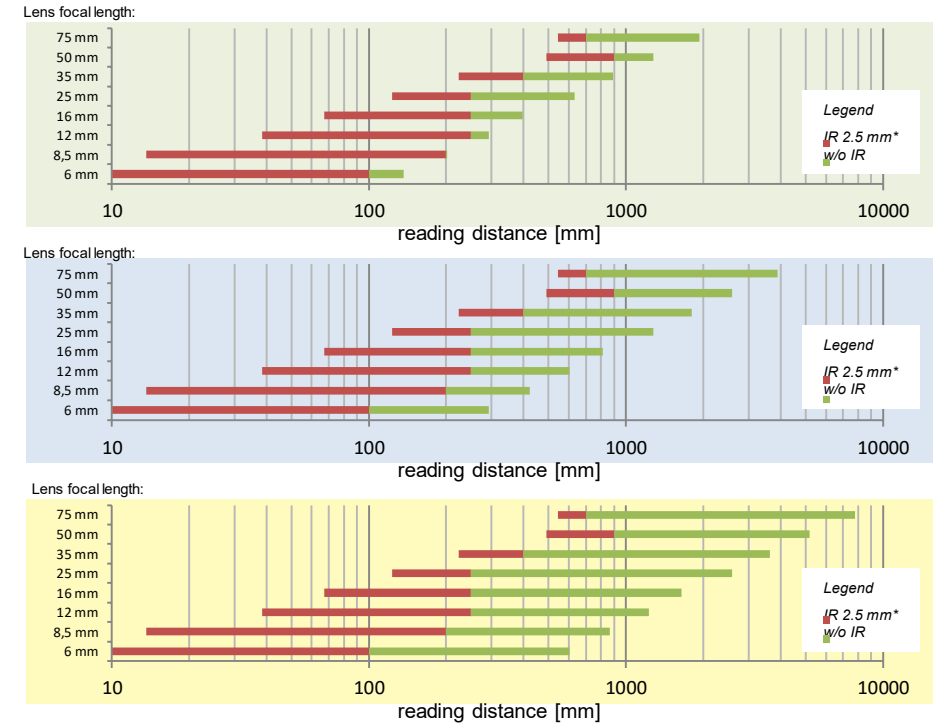
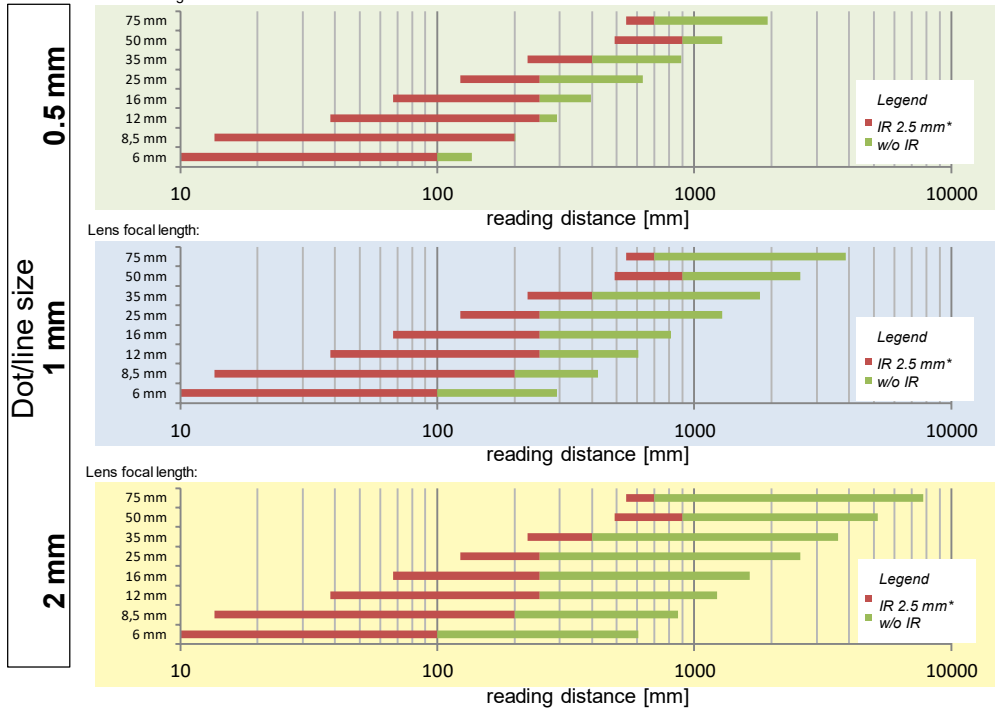
- Steps for selecting lens:**
1. Define the smallest dot size on DMC code or line width at barcode. Use the horizontal graphs next to your size selection in the upper section
  2. Define the reading distance and draw a vertical line with a ruler at every camera type (S, H)
  3. Select a lens and a camera type combination in the upper diagrams which fit best (green bar crossing or red bar crossing (intermediate rings (IR) required))
  4. Verify at the lower diagrams that the field of view is within the range of your application

Note: For a more detailed selection or if your application is out the presented range ask the presales team at [presales.ci.industry@siemens.com](mailto:presales.ci.industry@siemens.com)

Basic Models:

**S** (6GF3540-0CD10)

**H** (6GF3540-0GE10)



Also valid for E-Focus lens

- Steps for selecting lens:**
1. Define the smallest dot size on DMC code or line width at barcode. Use the horizontal graphs next to your size selection in the upper section
  2. Define the reading distance and draw a vertical line with a ruler at every camera type (U, X)
  3. Select a lens and a camera type combination in the upper diagrams which fit best (green bar crossing or red bar crossing (intermediate rings (IR) required))
  4. Verify at the lower diagrams that the field of view is within the range of your application

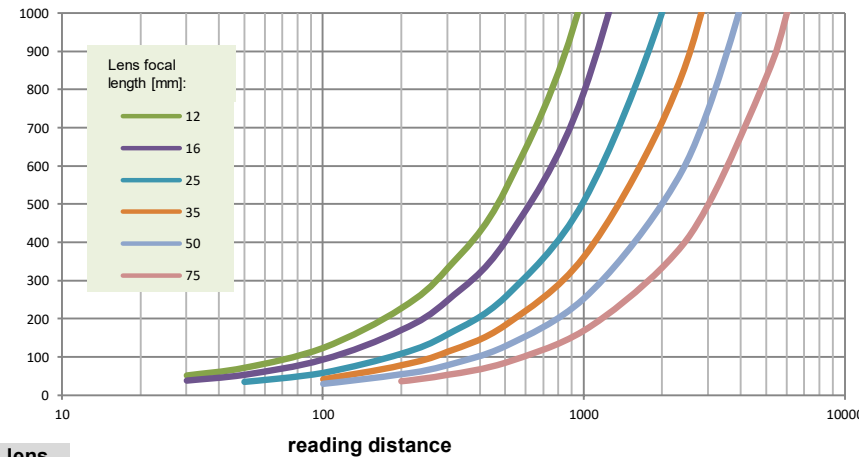
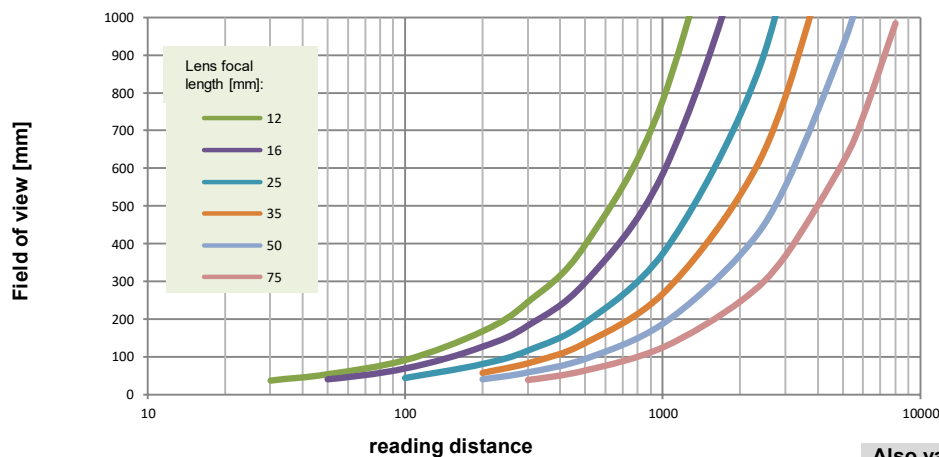
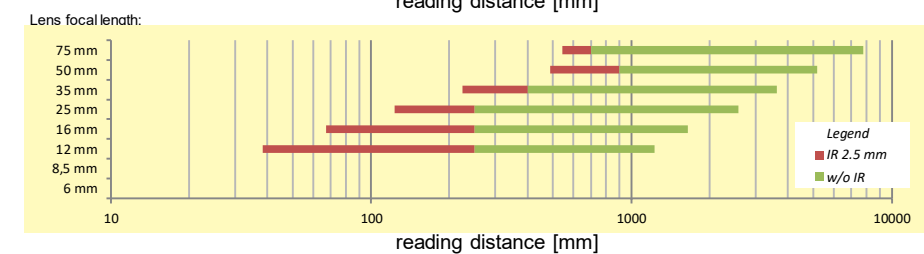
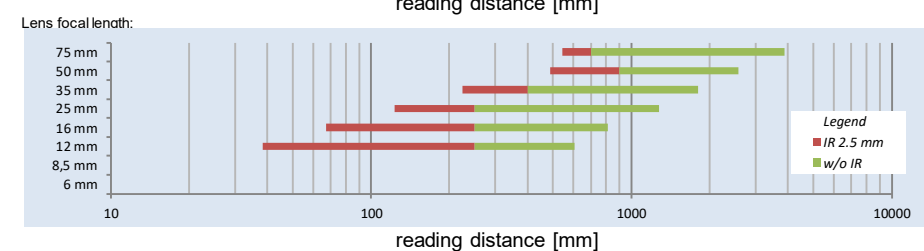
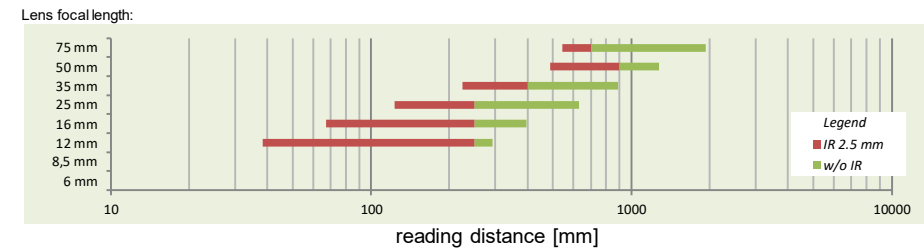
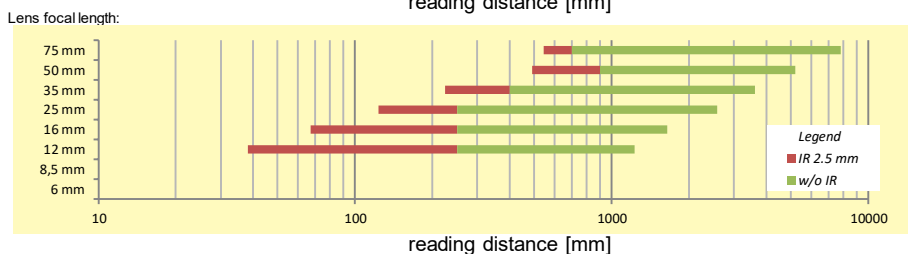
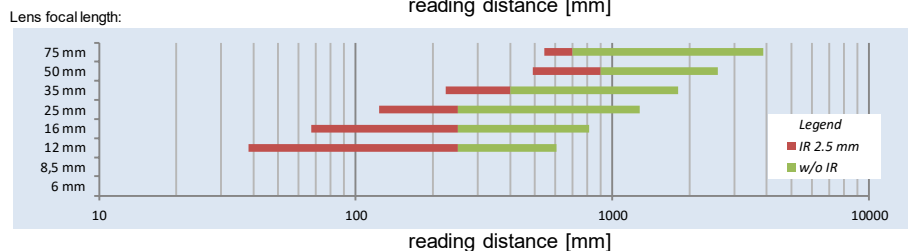
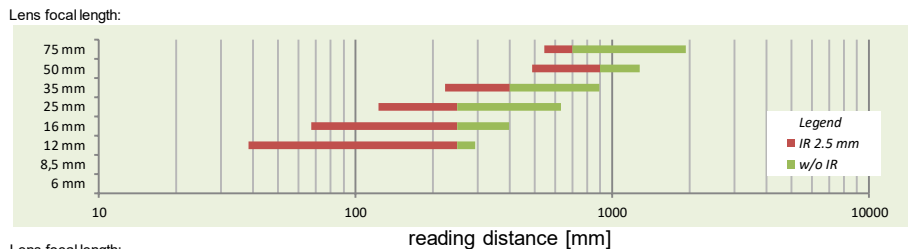
Note: For a more detailed selection or if your application is out the presented range ask the presales team at [presales.ci.industry@siemens.com](mailto:presales.ci.industry@siemens.com)

Basic Models:

**U** (6GF3560-0LE10)

**X** (6GF3560-0HE10)

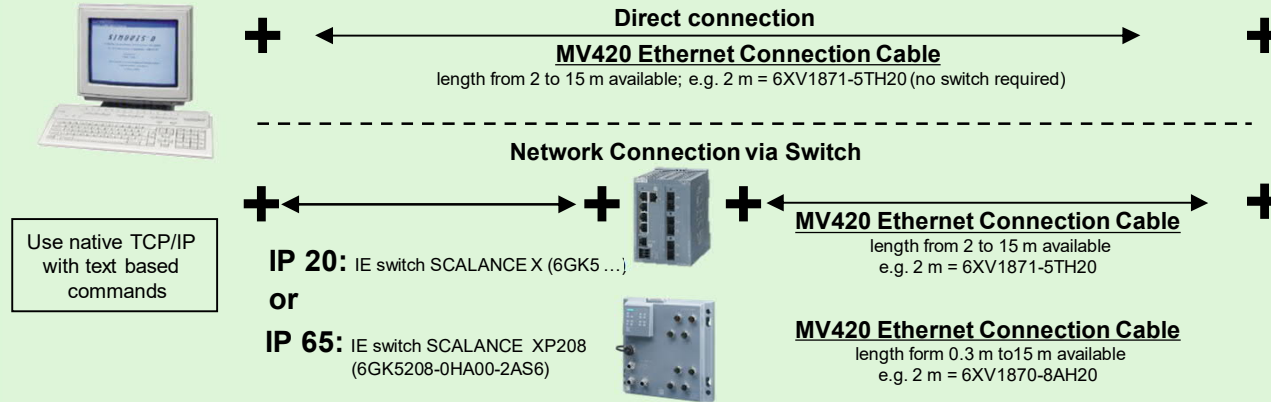
Dot/line size



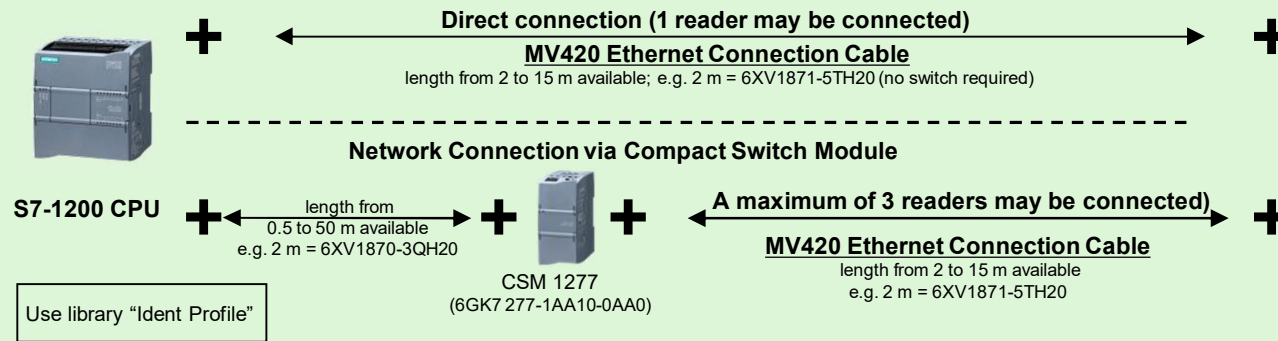
Also valid for E-Focus lens



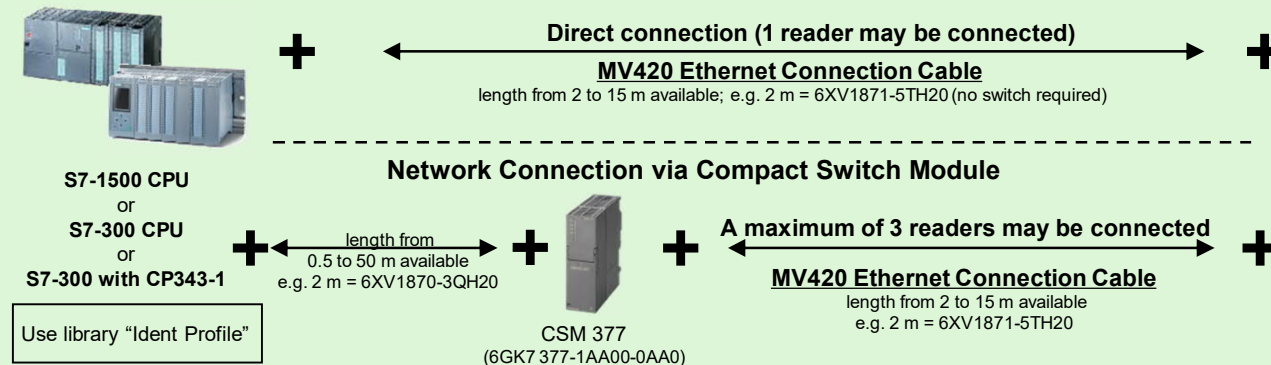
## Ethernet TCP/IP



## S7-1200 via Industrial Ethernet or PROFINET



## S7-300/1500 via Industrial Ethernet or PROFINET



## Reader

With external power supply



### MV420 complete

6 mm lens, red light, 640 x 480 pixel  
 SR-B: up to 40 reads per second (6GF3420-0AA20)  
 SR-P: up to 70 reads per second (6GF3420-0AA40)

## Options

### DIDO

Wires included in power supply cable Open wires

### Optional



#### Lens

6 mm (6GF3420-0AC00-0LK0)  
 16 mm (6GF3420-0AC00-1LK0)



#### Lights

red (6GF3420-0AC00-1LT0)  
 infrared (6GF3420-0AC00-3LT0)

### Support

Mounting bracket  
 6GF3420-0AC00-1AA0

### Cable for power supply

#### Open wires

10 m = 6GF3440-8BA2  
 30 m = 6GF3440-8BA4

#### or Push Pull

1.5 m = 6GF3400-0BH15  
 2 m = 6GF3400-1BH20

## SIMATIC PLC S7-1200



A maximum of 1 reader may be connected  
**RF120C to MV420**

2 m = 6GT2 091-4LH20  
5 m = 6GT2 091-4LH50  
10 m = 6GT2 091-4LN10

And extension cables:  
2 m = 6GT2 891-4FH20  
10 m = 6GT2 891-4FN10  
50 m = 6GT2 891-4FN50

adapting cable:  
2 m = 6GF3420-0AC00-2CB0

5 m = 6GT2 891-4FH50  
20 m = 6GT2 891-4FN20

## SIMATIC PLC S7-300 Rack or S7-400 via ET 200M (DP-V1/PN-IO)



**ASM 475 + Front connector**  
(6GT2 002-0GA10) + (6ES7 392-1AJ00-0AA0)

**Accessories:**  
Connecting element (6ES7 390-5AA00-0AA0)  
Terminal element (6ES7 390-5BA00-0AA0)

A maximum of 2 readers may be connected  
**ASM 475 to MV420**

2 m = 6GT2 891-4EH20  
5 m = 6GT2 891-4EH50

And extension cables:  
2 m = 6GT2 891-4FH20  
10 m = 6GT2 891-4FN10  
50 m = 6GT2 891-4FN50

adapting cable:  
2 m = 6GF3420-0AC00-2CB0

5 m = 6GT2 891-4FH50  
20 m = 6GT2 891-4FN20

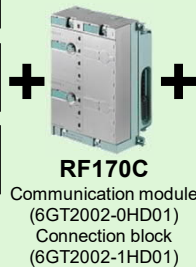
## ET 200pro via PROFIBUS or PROFINET or S7 PLC

ET 200pro PROFIBUS DP-V1  
Interface module

ET 200pro PROFINET  
Interface module

ET 200pro PROFINET  
CPU module

Up to 9 x 170C  
modules per  
ET 200pro rack



A maximum of 2 readers may be connected  
**RF170C to MV420**

Extension cables:  
2 m = 6GT2 891-4FH20  
5 m = 6GT2 891-4FH50  
10 m = 6GT2 891-4FN10  
20 m = 6GT2 891-4FN20  
50 m = 6GT2 891-4FN50

adapting cable:  
2 m = 6GF3420-0AC00-2CB0

## PROFIBUS



A maximum of 2 readers may be connected  
**RF166C to MV420**

Extension cables:  
2 m = 6GT2 891-4FH20  
5 m = 6GT2 891-4FH50  
10 m = 6GT2 891-4FN10  
20 m = 6GT2 891-4FN20  
50 m = 6GT2 891-4FN50

adapting cable:  
2 m = 6GF3420-0AC00-2CB0

## Reader

powered through connection cable



**MV420 complete**  
6 mm lens, red light, 640 x 480 pixel  
SR-B: up to 40 reads per second  
(6GF3420-0AA20)  
SR-P: up to 70 reads per second  
(6GF3420-0AA40)

### Optional



**Lens**  
6 mm  
(6GF3420-0AC00-0LK0)  
16 mm  
(6GF3420-0AC00-1LK0)



**Lights**  
red  
(6GF3420-0AC00-1LT0)  
infrared  
(6GF3420-0AC00-3LT0)

## Options

### D/DIO

Use cable „Power supply DIO RS232“ + distribution frame instead of adapting cable

10 m = 6GF3440-8BA2  
30 m = 6GF3440-8BA4

### Web Interface

Use additional IE cable

Various lengths available  
2 m = 6XV1871-5TH20

### Support

Mounting bracket  
6GF3420-0AC00-1AA0

## PROFINET & OPC UA & Ethernet/IP & TCP/IP

### Communication Modules

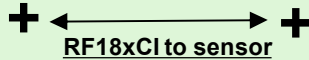


A maximum of  
**1 reader at RF185C,**  
**2 readers at RF186C/CI,**  
**4 readers at RF188C/CI**  
 of MV420 may be connected



Extension cables: + adapting cable:  
 2 m = 6GT2 891-4FH20 + 2 m = 6GF3420-0AC00-2CB0  
 5 m = 6GT2 891-4FH50  
 10 m = 6GT2 891-4FN10  
 20 m = 6GT2 891-4FN20  
 50 m = 6GT2 891-4FN50

### Additional IOs



five wire sensor cable from  
 0.5 to 15 m available  
 (e.g. 2 m = 6XV1801-2CH20)



### Types of IO-Link IO module

IO-extension module

6ES7 14.... (up to 8xDI + 8xDO)

See page 76 for detailed information

Or one  
**Standard sensor**



Or one  
**Actor**



## Reader

powered through connection cable



### MV420 complete

6 mm lens, red light, 640 x 480 pixel  
 SR-B: up to 40 reads per second  
 (6GF3420-0AA20)  
 SR-P: up to 70 reads per second  
 (6GF3420-0AA40)

## Options

### DIDO

Use cable „Power supply DIO RS232“ + distribution frame instead of adapting cable

10 m = 6GF3440-8BA2  
 30 m = 6GF3440-8BA4

### Web Interface

Use additional IE cable

Various lengths available  
 2 m = 6XV1871-5TH20

### Support

Mounting bracket  
 6GF3420-0AC00-1AA0

### Optional



#### Lens

6 mm  
 (6GF3420-0AC00-0LK0)  
 16 mm  
 (6GF3420-0AC00-1LK0)



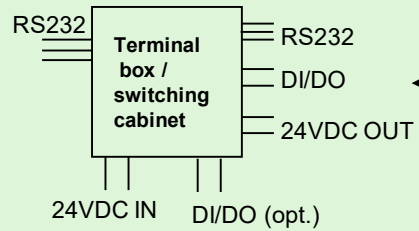
#### Lights

red  
 (6GF3420-0AC00-1LT0)  
 infrared  
 (6GF3420-0AC00-3LT0)

## Serial RS232



Simple text based protocol



← **1 Reader per COM port may be connected** → +  
**RS 232 cable for MV420 (open wires)**  
 10 m = 6GF3440-8BA2  
 30 m = 6GF3440-8BA4

## Reader

With external power supply



### MV420 complete

6 mm lens, red light, 640 x 480 pixel  
 SR-B: up to 40 reads per second  
 (6GF3420-0AA20)  
 SR-P: up to 70 reads per second  
 (6GF3420-0AA40)

### Optional



#### Lens

6 mm  
 (6GF3420-0AC00-0LK0)  
 16 mm  
 (6GF3420-0AC00-1LK0)



#### Lights

red  
 (6GF3420-0AC00-1LT0)  
 infrared  
 (6GF3420-0AC00-3LT0)

## Options

### DI/DO

Wires included in RS232 / power supply cable  
 Open wires

### Web Interface

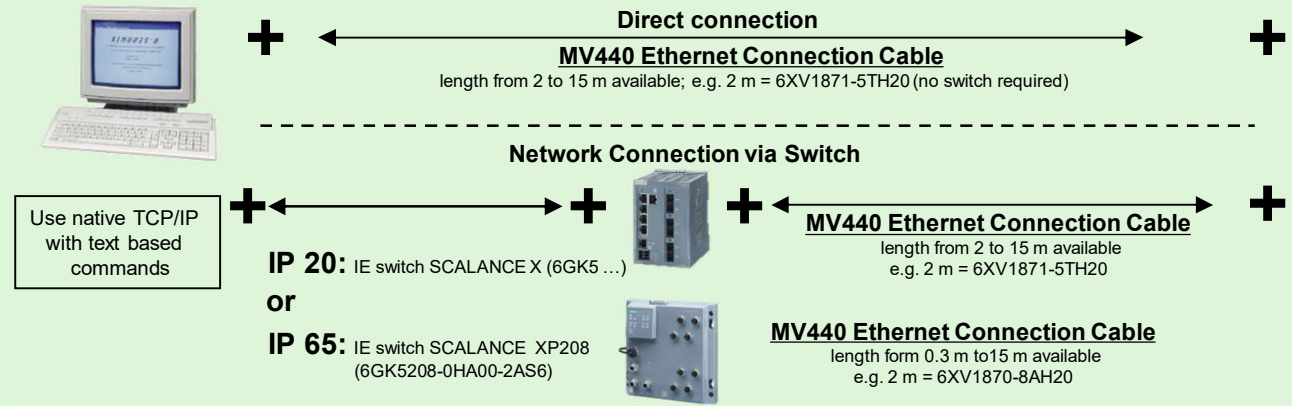
Use additional IE cable

Various lengths available  
 2 m = 6XV1871-5TH20

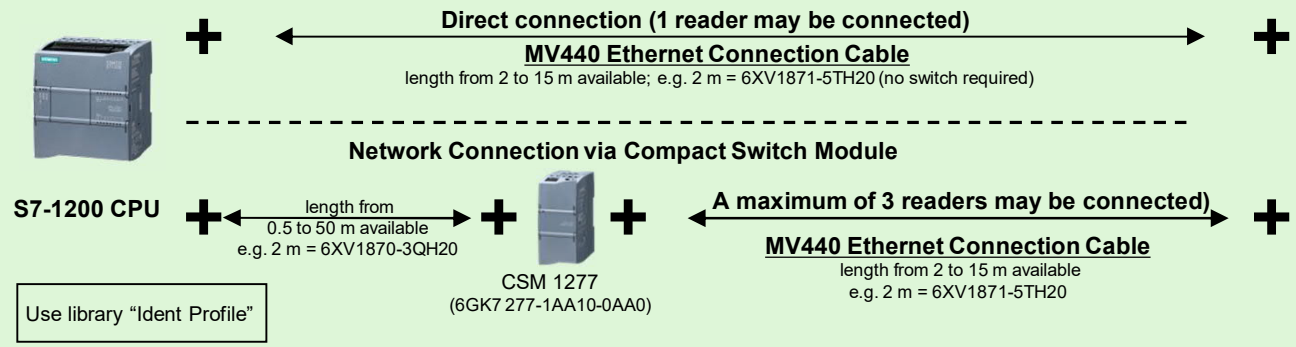
### Support

Mounting bracket  
 6GF3420-0AC00-1AA0

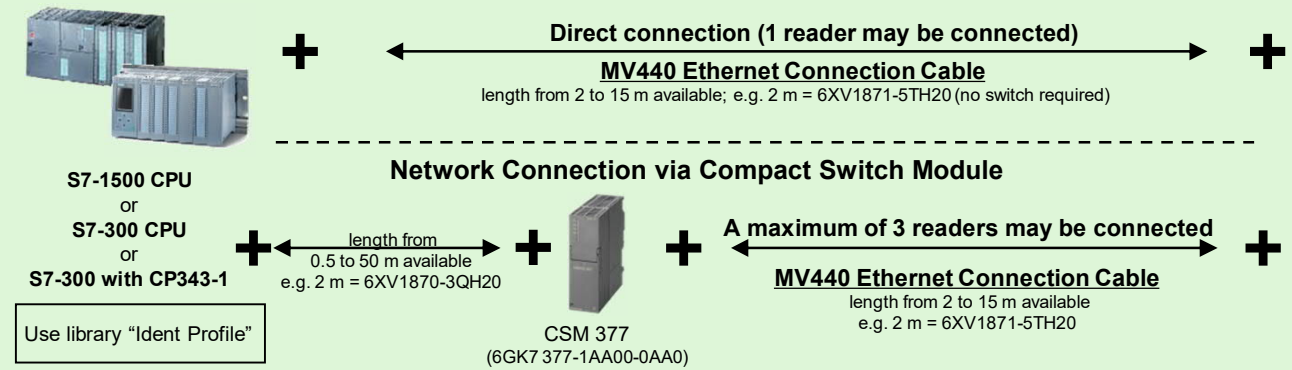
## Ethernet TCP/IP



## S7-1200 via Industrial Ethernet or PROFINET



## S7-300/1500 via Industrial Ethernet or PROFINET



## Reader

With external power supply



**MV440**  
 SR; 640 x 480 pixel:  
 (6GF3440-1CD10)  
 HR; 1024 x 768 pixel:  
 (6GF3440-1GE10)  
 UR; 1600 x 1200 pixel:  
 (6GF3440-1LE10)



### Lens

- 6 mm (6GF9001-1BB01)
- 8.5 mm \*\* (6GF9001-1BE01)
- 12 mm (6GF9001-1BL01)
- 16 mm (6GF9001-1BF01)
- 25 mm (6GF9001-1BG01)
- 35 mm (6GF9001-1BH01)
- 50 mm (6GF9001-1BJ01)
- 75 mm \*\* \*\* (6GF9001-1BK01)



### Lights build-in

- red (6GF3440-8DA11)
- white (6GF3440-8DA21)
- green (6GF3440-8DA31)
- infrared (6GF3440-8DA41)



### Lights external \*)

- red (6GF3400-0LT01-8DA1)
- infrared (6GF3400-0LT01-7BA1)

### Cable for power supply

#### Open wires

- 10 m = 6GF3440-8BA2
- 30 m = 6GF3440-8BA4

#### or Push Pull

- 1.5 m = 6GF3400-0BH15
- 2 m = 6GF3400-1BH20

### Or Wide-Range power supply

#### EU connector

- 6GT2 898-0AA00

#### UK connector

- 6GT2 898-0AA10

#### US connector

- 6GT2 898-0AA20

#### 5 m cable for 24 V

- 6GT2 891-0PH50

\*) Additional power supply needed  
 \*\*) not in combination with build-in lights;  
 \*\*\*) for protection order additional the tube extension 6GF3440-8AC13

## Options

### D/I/DO \*)

Wires included in power supply cable „Open wires“

### Software

- Text-Genius 6GF3400-0SL01
- Text-Genius Plus 6GF3400-1SL01
- Veri-Genius 6GF3400-0SL02
- Pat-Genius 6GF3400-0SL03

### Support

- Mounting plate 6GF3440-8CA
- Tri-plate 6GF9002-7AD

### Opt. for Lens rings

- 0.5, 1, 5, 10, 20, 40 mm 6GF9001-1BU
- 0.5, 1 mm 6GF9001-1BU01
- length doubler 6GF9001-1BV

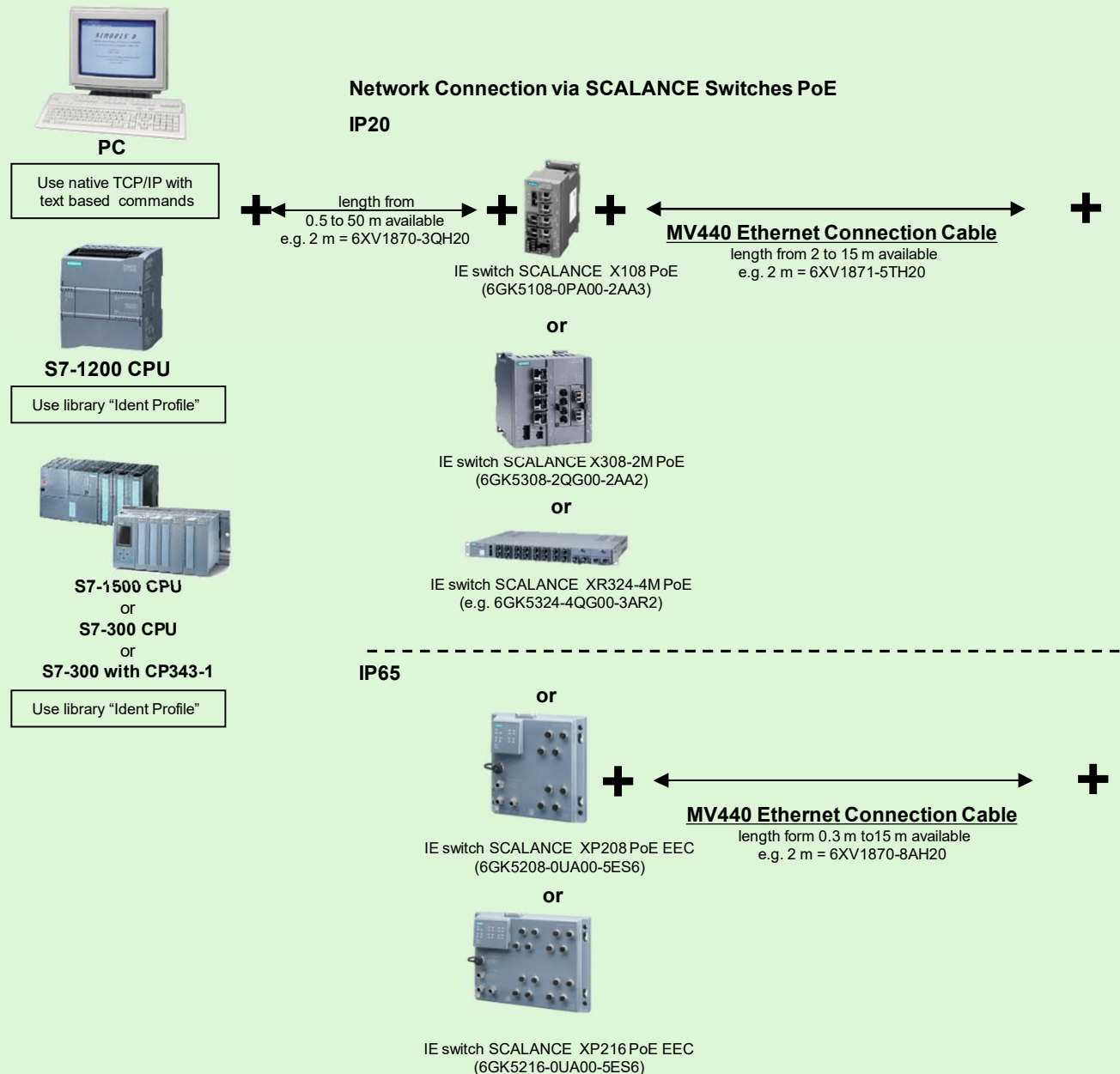
### Filter

- infrared 6GF9001-2AD
- polarization 6GF9001-2AF
- 6GF3440-8CX3 daylight 6GF3440-8EA1

### Protective lens cover

- metal glas 6GF3440-8AC11
- metal plastic 6GF3440-8AC21
- plastic (included in basic model) 6GF3440-8AC12

## Ethernet TCP/IP or PROFINET (PoE)



## Reader

With power supply over Ethernet (PoE)

**Lens**

- 6 mm (6GF9001-1BB01)
- 8.5 mm \*\* (6GF9001-1BE01)
- 12 mm (6GF9001-1BL01)
- 16 mm (6GF9001-1BF01)
- 25 mm (6GF9001-1BG01)
- 35 mm (6GF9001-1BH01)
- 50 mm (6GF9001-1BJ01)
- 75 mm \*\* \*\* (6GF9001-1BK01)

**Light rings**

- red (6GF3440-8DA11)
- white (6GF3440-8DA21)
- green (6GF3440-8DA31)
- infrared (6GF3440-8DA41)

**MV440**

- SR; 640 x 480 pixel: (6GF3440-1CD10)
- HR; 1024 x 768 pixel: (6GF3440-1GE10)
- UR; 1600 x 1200 pixel: (6GF3440-1LE10)

**Lights external \*)**

- red (6GF3400-0LT01-8DA1)
- infrared (6GF3400-0LT01-7BA1)

**Cable adapter M16/M12** (6GF3440-8BD1)  
Or  
**Cable M12/open wire** (6GF3440-8BC4)

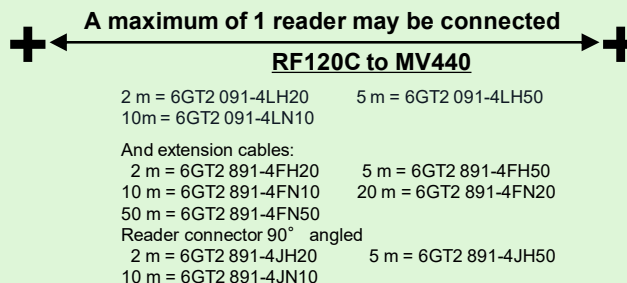
**Mounting plate** (6GF3440-8CD01)

## Options

- D/DIO \*)**
- „Power supply DIO RS232“
- 10 m = 6GF3440-8BA2
  - 30 m = 6GF3440-8BA4
- Software**
- Text-Genius 6GF3400-0SL01
  - Text-Genius Plus 6GF3400-1SL01
  - Veri-Genius 6GF3400-0SL02
  - Pat-Genius 6GF3400-0SL03
- Support**
- Mounting plate 6GF3440-8CA
  - Tri-plate 6GF9002-7AD
- Opt. for Lens rings**
- 0.5, 1, 5, 10, 20, 40 mm 6GF9001-1BU
  - 0.5, 1 mm 6GF9001-1BU01
  - length doubler 6GF9001-1BV
- Filter**
- infrared 6GF9001-2AD
  - polarization 6GF9001-2AF
  - infrared 6GF3440-8CX3
  - daylight 6GF3440-8EA1
- Protective lens cover**
- metal glas 6GF3440-8AC11
  - metal plastic 6GF3440-8AC21
  - plastic (included in basic model) 6GF3440-8AC12

\*) Additional power supply needed  
\*\*) not in combination with build-in lights;  
\*\*\*) for protection order additional the tube extension 6GF3440-8AC13

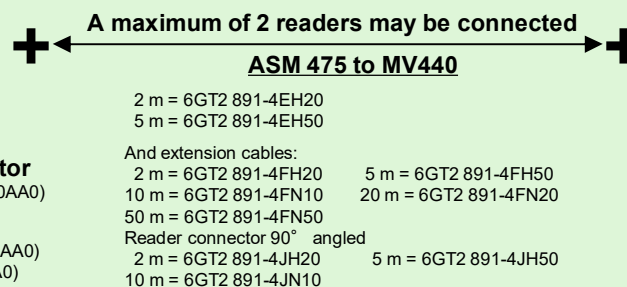
## SIMATIC PLC S7-1200



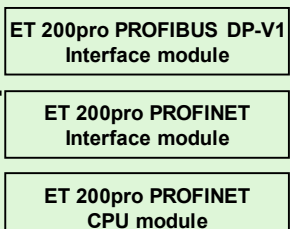
## SIMATIC PLC S7-300 Rack or S7-400 via ET 200M (DP-V1/PN-IO)



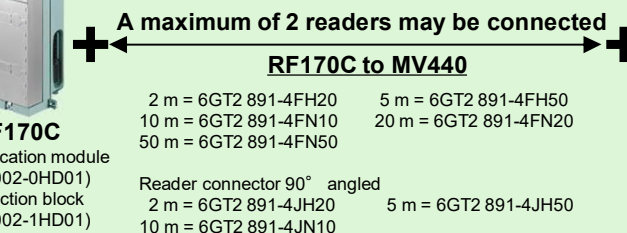
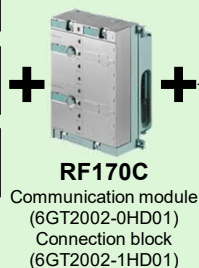
**Accessories:**  
Connecting element (6ES7 390-5AA00-0AA0)  
Terminal element (6ES7 390-5BA00-0AA0)



## ET 200pro via PROFIBUS or PROFINET or S7 PLC



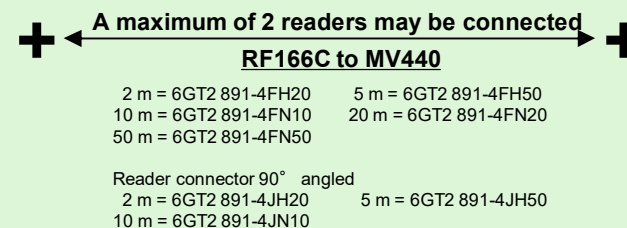
**Up to 9 x 170C  
modules per  
ET 200pro rack**



## PROFIBUS



**RF166C (DP-V1)**  
Communication Module (6GT2 002-0EE20)



## Reader powered through connection cable



- Lens**
- 6 mm (6GF9001-1BB01)
  - 8.5 mm\*\* (6GF9001-1BE01)
  - 12 mm (6GF9001-1BL01)
  - 16 mm (6GF9001-1BF01)
  - 25 mm (6GF9001-1BG01)
  - 35 mm (6GF9001-1BH01)
  - 50 mm (6GF9001-1BJ01)
  - 75 mm\*\*\*) (6GF9001-1BK01)



**MV440**  
SR; 640 x 480 pixel: (6GF3440-1CD10)  
HR; 1024 x 768 pixel: (6GF3440-1GE10)  
UR; 1600 x 1200 pixel: (6GF3440-1LE10)



- Lights build-in**
- red (6GF3440-8DA11)
  - white (6GF3440-8DA21)
  - green (6GF3440-8DA31)
  - infrared (6GF3440-8DA41)



- Lights external \*)**
- red (6GF3400-0LT01-8DA1)
  - infrared (6GF3400-0LT01-7BA1)

- +**
- Cable adapter M16/M12 (6GF3440-8BD1)
  - Or
  - Cable M12/open wire (6GF3440-8BC4)

- +**
- Mounting plate (6GF3440-8CD01)

\*) Additional power supply needed  
\*\*) not in combination with build-in lights;  
\*\*\*) for protection order additional the tube extension 6GF3440-8AC13

## Options

**D/I/O \*)**

„Power supply DIO RS232“  
10 m = 6GF3440-8BA2  
30 m = 6GF3440-8BA4

**Software**

Text-Genius  
6GF3400-0SL01  
Text-Genius Plus  
6GF3400-1SL01  
Veri-Genius  
6GF3400-0SL02  
Pat-Genius  
6GF3400-0SL03

**Web Interface**

Use additional IE cable  
Various lengths available  
2 m = 6XV1871-5TH20

**Support**

Mounting plate  
6GF3440-8CA  
Tri-plate  
6GF9002-7AD

**Opt. for Lens rings**

0.5, 1, 5, 10, 20, 40 mm  
6GF9001-1BU  
0.5, 1 mm  
6GF9001-1BU01  
length doubler  
6GF9001-1BV

**Filter**

infrared  
6GF9001-2AD  
polarization  
6GF9001-2AF  
6GF3440-8CX3  
daylight  
6GF3440-8EA1

**Protective lens cover**

metal glas  
6GF3440-8AC11  
metal plastic  
6GF3440-8AC21  
plastic (included in basic model)  
6GF3440-8AC12

## PROFINET & OPC UA & Ethernet/IP & TCP/IP

### Communication Modules



**RF185C** (6GT2 002-0JE10) **RF186C** (6GT2 002-0JE20) **RF188C** (6GT2 002-0JE40)

A maximum of  
**1 reader at RF185C,**  
**2 readers at RF186C/CI,**  
**4 readers at RF188C/CI**  
**of MV440 may be connected**

2 m = 6GT2 891-4FH20      5 m = 6GT2 891-4FH50  
 10 m = 6GT2 891-4FN10      20 m = 6GT2 891-4FN20  
 50 m = 6GT2 891-4FN50

Reader connector 90° angled:  
 2 m = 6GT2 891-4JH20      5 m = 6GT2 891-4JH50  
 10 m = 6GT2 891-4JN10

### Additional IOs



**RF186CI** (6GT2 002-0JE50) **RF188CI** (6GT2 002-0JE60)

**RF18xCI to sensor**

Sensor cable from  
 0.5 to 15 m available  
 (e.g. 2 m = 6XV1801-2CH20)

### Types of IO-Link I/O module

IO-extension module

6ES7 14..... (up to 8xDI + 8xDO)  
 See page 76 for detailed information

Or one  
**Standard sensor**

Or one  
**Actor**

## Reader

powered through connection cable



### Lens

- 6 mm (6GF9001-1BB01)
- 8.5 mm\*\* (6GF9001-1BE01)
- 12 mm (6GF9001-1BL01)
- 16 mm (6GF9001-1BF01)
- 25 mm (6GF9001-1BG01)
- 35 mm (6GF9001-1BH01)
- 50 mm (6GF9001-1BJ01)
- 75 mm\*\*\*) (6GF9001-1BK01)



### MV440

- SR; 640 x 480 pixel: (6GF3440-1CD10)
- HR; 1024 x 768 pixel: (6GF3440-1GE10)
- UR; 1600 x 1200 pixel: (6GF3440-1LE10)



### Lights build-in

- red (6GF3440-8DA11)
- white (6GF3440-8DA21)
- green (6GF3440-8DA31)
- infrared (6GF3440-8DA41)



### Lights external \*)

- red (6GF3400-0LT01-8DA1)
- infrared (6GF3400-0LT01-7BA1)



- Cable adapter M16/M12 (6GF3440-8BD1)
- Or
- Cable M12/open wire (6GF3440-8BC4)



- Mounting plate (6GF3440-8CD01)

\*) Additional power supply needed  
 \*\*) not in combination with build-in lights;  
 \*\*\*) for protection order additional the tube extension 6GF3440-8AC13

## Options

### D/DO \*)

„Power supply  
 DIO RS232“

- 10 m = 6GF3440-8BA2
- 30 m = 6GF3440-8BA4

### Software

- Text-Genius 6GF3400-0SL01
- Text-Genius Plus 6GF3400-1SL01
- Veri-Genius 6GF3400-0SL02
- Pat-Genius 6GF3400-0SL03

### Web Interface

Use additional IE cable  
 Various lengths available  
 2 m = 6XV1871-5TH20

### Support

- Mounting plate 6GF3440-8CA
- Tri-plate 6GF9002-7AD

### Opt. for Lens rings

- 0.5, 1, 5, 10, 20, 40 mm 6GF9001-1BU
- 0.5, 1 mm 6GF9001-1BU01
- length doubler 6GF9001-1BV

### Filter

- infrared 6GF9001-2AD
- polarization 6GF9001-2AF
- 6GF3440-8CX3 daylight 6GF3440-8EA1

### Protective lens cover

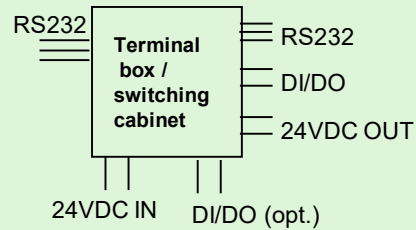
- metal glas 6GF3440-8AC11
- metal plastic 6GF3440-8AC21
- plastic (included in basic model) 6GF3440-8AC12



## Serial RS232



Simple text based protocol



1 Reader per COM port may be connected

**RS 232 cable for MV440 (open wires)** +

- 10 m = 6GF3440-8BA2
- 30 m = 6GF3440-8BA4

## Reader

With external power supply



### Lens

- 6 mm (6GF9001-1BB01)
- 8.5 mm \*\* (6GF9001-1BE01)
- 12 mm (6GF9001-1BL01)
- 16 mm (6GF9001-1BF01)
- 25 mm (6GF9001-1BG01)
- 35 mm (6GF9001-1BH01)
- 50 mm (6GF9001-1BJ01)
- 75 mm \*\* \*\*\*) (6GF9001-1BK01)



### MV440

- SR; 640 x 480 pixel: (6GF3440-1CD10)
- HR; 1024 x 768 pixel: (6GF3440-1GE10)
- UR; 1600 x 1200 pixel: (6GF3440-1LE10)



### Lights build-in

- red (6GF3440-8DA11)
- white (6GF3440-8DA21)
- green (6GF3440-8DA31)
- infrared (6GF3440-8DA41)



### Lights external \*)

- red (6GF3400-0LT01-8DA1)
- infrared (6GF3400-0LT01-7BA1)



- Cable adapter M16/M12 (6GF3440-8BD1)
- Or
- Cable M12/open wire (6GF3440-8BC4)



- Mounting plate (6GF3440-8CD01)

\*) Additional power supply needed  
 \*\*) not in combination with build-in lights;  
 \*\*\*) for protection order additional the tube extension 6GF3440-8AC13

## Options

### DI/DO \*)

Wires included in RS232 / power supply cable  
 Open wires

### Software

- Text-Genius 6GF3400-0SL01
- Text-Genius Plus 6GF3400-1SL01
- Veri-Genius 6GF3400-0SL02
- Pat-Genius 6GF3400-0SL03

### Web Interface

Use additional IE cable  
 Various lengths available  
 2 m = 6XV1871-5TH20

### Support

- Mounting plate 6GF3440-8CA
- Tri-plate 6GF9002-7AD

### Opt. for Lens rings

- 0.5, 1, 5, 10, 20, 40 mm 6GF9001-1BU
- 0.5, 1 mm 6GF9001-1BU01
- length doubler 6GF9001-1BV

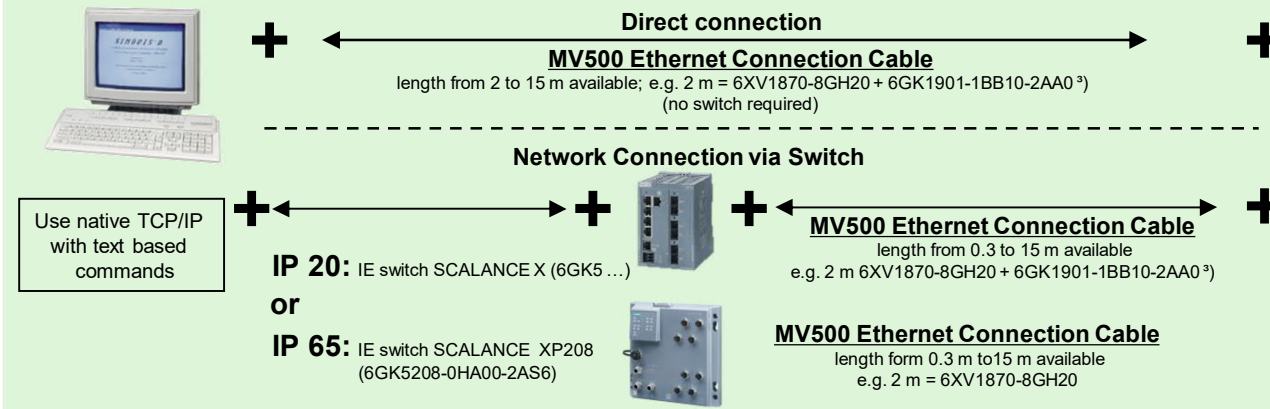
### Filter

- infrared 6GF9001-2AD
- polarization 6GF9001-2AF
- 6GF3440-8CX3
- daylight 6GF3440-8EA1

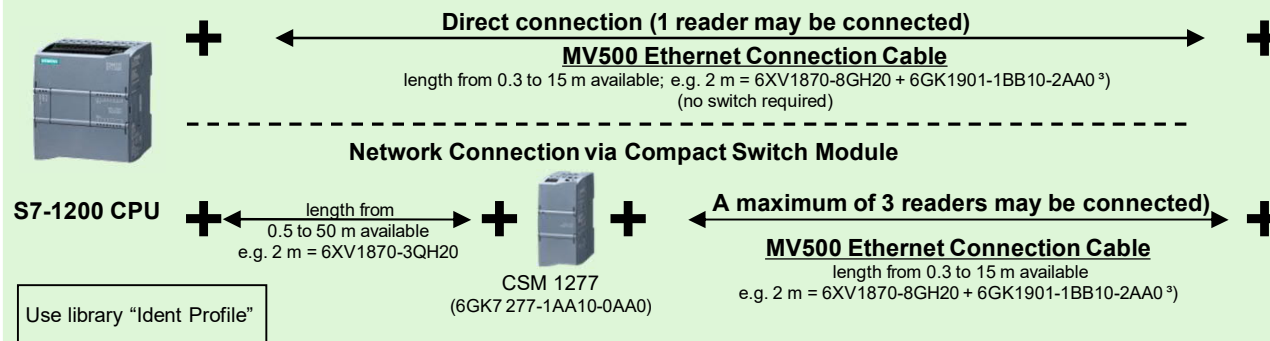
### Protective lens cover

- metal glas 6GF3440-8AC11
- metal plastic 6GF3440-8AC21
- plastic (included in basic model) 6GF3440-8AC12

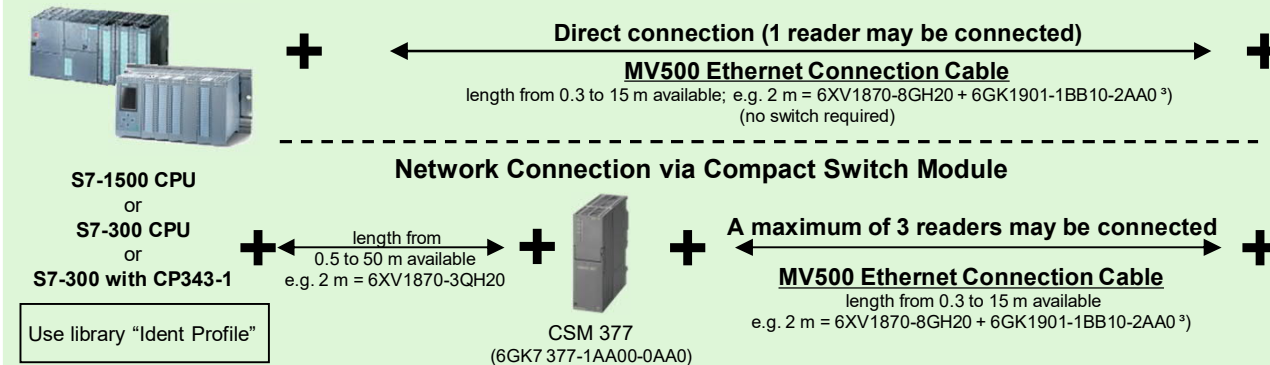
## Ethernet TCP/IP



## S7-1200 via Industrial Ethernet or PROFINET



## S7-300/1500 via Industrial Ethernet or PROFINET



<sup>3)</sup> Custom assembly necessary; use the correct stripping tool

## Reader

With external power supply

**Manual focus lens**

|         |                    |                      |
|---------|--------------------|----------------------|
| 6 mm:   | 6GF9001-1BB01      | <sup>3)</sup>        |
| 8.5 mm: | 6GF9001-1BE01      | <sup>sh) 1)</sup>    |
| 12 mm:  | 6GF9001-1BL01      | <sup>sh)</sup>       |
| 12 mm:  | 6GF3560-8EA01-0FF0 | <sup>ux) 1) 4)</sup> |
| 16 mm:  | 6GF9001-1BF01      | <sup>sh)</sup>       |
| 16 mm:  | 6GF3560-8EA02-0FF0 | <sup>ux) 1) 4)</sup> |
| 25 mm:  | 6GF9001-1BG01      | <sup>sh)</sup>       |
| 25 mm:  | 6GF3560-8EA03-0FF0 | <sup>ux) 1) 4)</sup> |
| 35 mm:  | 6GF9001-1BH01      | <sup>shux)</sup>     |
| 50 mm:  | 6GF9001-1BJ01      | <sup>shux)</sup>     |
| 75 mm:  | 6GF9001-1BK01      | <sup>shux) 2)</sup>  |

**MV540**  
 S; 800 x 600 pixel:  
 (6GF3540-0CD10)  
 H; 1280 x 1024 pixel:  
 (6GF3540-0GE10)

**MV550**  
 S; 800 x 600 pixel:  
 (6GF3550-0CD10)  
 H; 1280 x 1024 pixel:  
 (6GF3550-0GE10)

**E-Focus lens**

|        |                    |                     |
|--------|--------------------|---------------------|
| 12 mm: | 6GF3540-8EA01-0LL0 | <sup>sh)</sup>      |
| 16 mm: | 6GF3540-8EA02-0LL0 | <sup>shux)</sup>    |
| 25 mm: | 6GF3540-8EA03-0LL0 | <sup>shux)</sup>    |
| 35 mm: | 6GF3540-8EA04-0LL0 | <sup>shux)</sup>    |
| 50 mm: | 6GF3540-8EA05-0LL0 | <sup>shux) 2)</sup> |

**MV560**  
 U; 1920 x 1200 pixel:  
 (6GF3560-0LE10)  
 X; 2592 x 2048 pixel:  
 (6GF3560-0HE10)

**Cable for power supply**  
**Open wires**  
 10 m = 6GF3500-8BA21  
 30 m = 6GF3500-8BA41

**Power supply**  
**EU connector**  
 6GT2 898-0AA00  
**UK connector**  
 6GT2 898-0AA10  
**US connector**  
 6GT2 898-0AA20  
**cable for 24 V**  
 5 m = 6GT2 891-0PH50  
 +  
 50 cm = 6GF3500-8BA11  
 5 m = 6GF3500-8BA12

**Lights build-in**

|                 |               |
|-----------------|---------------|
| red basic:      | 6GF3540-8DA11 |
| red far:        | 6GF3540-8DA12 |
| red multi:      | 6GF3540-8DA13 |
| white multi:    | 6GF3540-8DA33 |
| infrared basic: | 6GF3540-8DA41 |
| infrared far:   | 6GF3540-8DA42 |

**Lights external: ring**  
 Red: 6GF3400-0LT01-8DA1  
 Infrared: 6GF3400-0LT01-7BA1  
 +  
 adapter M12/M12: 6GF3500-8BD10  
 mounting plate: 6GF3440-8CD01

**Lights external: panel**  
 20x20 cm: 6GF3500-8DF30-1DA0  
 30x20 cm: 6GF3500-8DF30-2DA0  
 40x30 cm: 6GF3500-8DF30-3DA0  
 +  
**Mounting aid**  
 6GF3500-8CD

<sup>1)</sup> not in combination with build-in lights;  
<sup>2)</sup> use long version of protective lens cover always and only with 6GF9001-1BK01 and 6GF3540-8EA05-0LL0  
<sup>4)</sup> No usage of option „Micro SD Card“ with these lens  
<sup>shux)</sup> indicates the types of camera which are allowed for usage;  
 i.e. <sup>u)</sup> means MV5x0U is allowed

## Options

**DO**  
 Wires included in power supply cable „Open wires“

**Software**  
 Veri-Genius  
 6GF3400-0SL02  
 Pat-Genius  
 6GF3400-0SL03

**Micro SD Card**  
 for Configuration Backup; 4GB  
 6GK6000-8HT01-0SA2

**Support**  
 Mounting plate  
 6GF3440-8CA  
 Tri-plate  
 6GF9002-7AD

**Opt. for Lens; Rings**  
 0.5, 1, 5, 10, 20, 40 mm  
 6GF9001-1BU

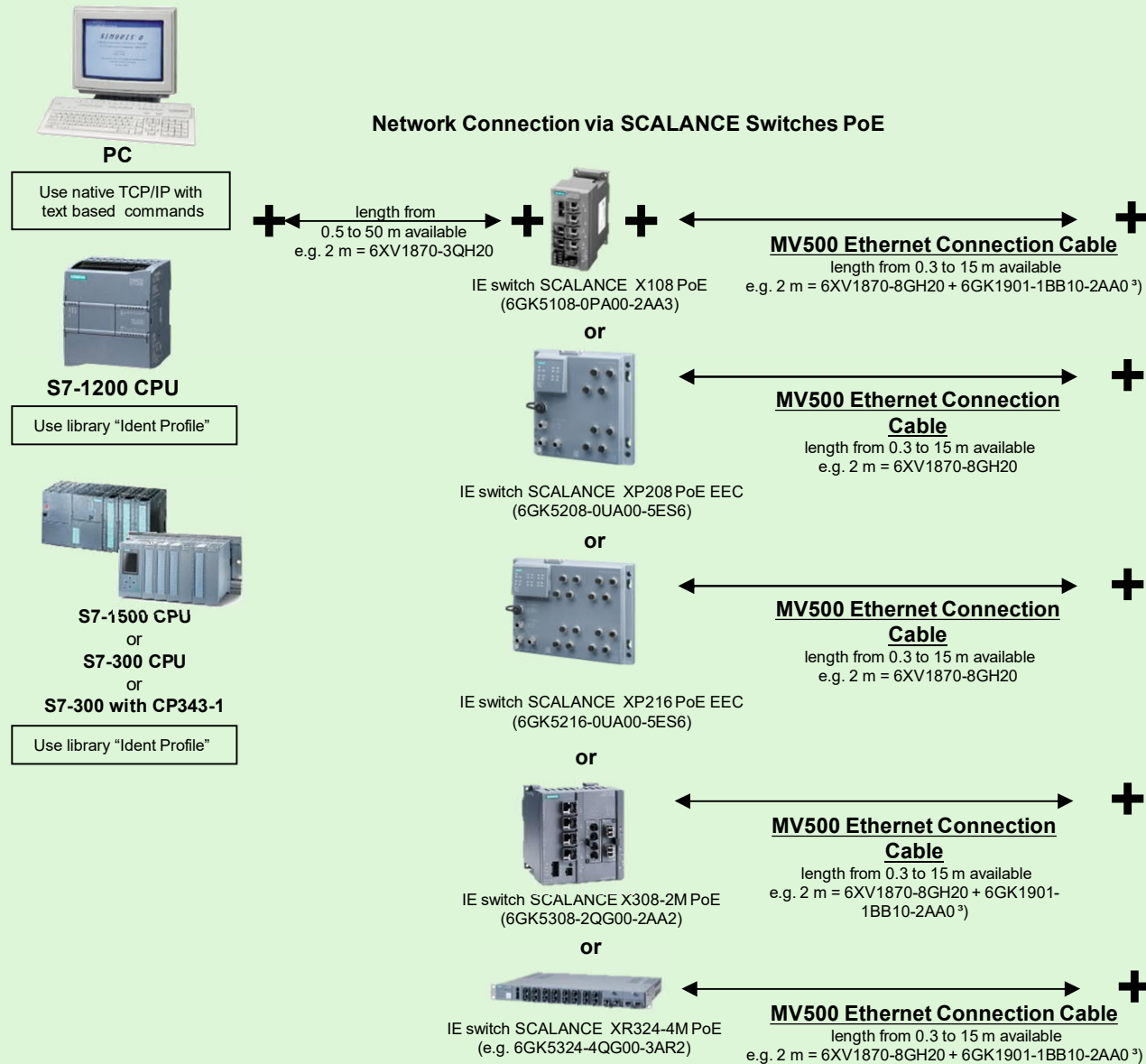
0.5, 1 mm  
 6GF9001-1BU01  
 length doubler  
 6GF9001-1BV

**Protective lens cover**  
 Basic length glas  
 no filter 6GF3540-8AC11  
 red 6GF3540-8AC51  
 infrared 6GF3540-8AC41  
 IRUVcut 6GF3540-8AC31

Long version glas<sup>2)</sup>  
 no filter 6GF3540-8AC12  
 red 6GF3540-8AC52  
 infrared 6GF3540-8AC42  
 IRUVcut 6GF3540-8AC32

Basic length PMMA  
 6GF3540-8AC21  
 Long version PMMA<sup>2)</sup>  
 6GF3540-8AC22

## Ethernet TCP/IP or PROFINET (PoE): 100MB



<sup>3)</sup> Custom assembly necessary; use the correct stripping tool

## Reader

With power supply over Ethernet (PoE)



### MV540

S; 800 x 600 pixel:  
(6GF3540-0CD10)  
H; 1280 x 1024 pixel:  
(6GF3540-0GE10)

### MV550

S; 800 x 600 pixel:  
(6GF3550-0CD10)  
H; 1280 x 1024 pixel:  
(6GF3550-0GE10)

### MV560

U; 1920 x 1200 pixel:  
(6GF3560-0LE10)  
X; 2592 x 2048 pixel:  
(6GF3560-0HE10)



### Manual focus lens

6 mm: 6GF9001-1BB01<sup>s)</sup>  
8.5 mm: 6GF9001-1BE01<sup>sh) 1)</sup>  
12 mm: 6GF9001-1BL01<sup>sh)</sup>  
12 mm: 6GF3560-8EA01-0FF0<sup>ux) 1) 4)</sup>  
16 mm: 6GF9001-1BF01<sup>sh)</sup>  
16 mm: 6GF3560-8EA02-0FF0<sup>ux) 1) 4)</sup>  
25 mm: 6GF9001-1BG01<sup>sh)</sup>  
25 mm: 6GF3560-8EA03-0FF0<sup>ux) 1) 4)</sup>  
35 mm: 6GF9001-1BH01<sup>shux)</sup>  
50 mm: 6GF9001-1BJ01<sup>shux)</sup>  
75 mm: 6GF9001-1BK01<sup>shux) 2)</sup>



### E-Focus lens

12 mm: 6GF3540-8EA01-0LL0<sup>sh)</sup>  
16 mm: 6GF3540-8EA02-0LL0<sup>shux)</sup>  
25 mm: 6GF3540-8EA03-0LL0<sup>shux)</sup>  
35 mm: 6GF3540-8EA04-0LL0<sup>shux)</sup>  
50 mm: 6GF3540-8EA05-0LL0<sup>shux) 2)</sup>



### Lights build-in

red basic: 6GF3540-8DA11  
red far: 6GF3540-8DA12  
red multi: 6GF3540-8DA13  
white multi: 6GF3540-8DA33  
infrared basic: 6GF3540-8DA41  
infrared far: 6GF3540-8DA42

## Options

### DO

Additional cable for DO-supply is needed

10 m = 6GF3500-8BA21  
30 m = 6GF3500-8BA41

### Software

Veri-Genius  
6GF3400-0SL02  
Pat-Genius  
6GF3400-0SL03

### Micro SD Card

for Configuration Backup; 4GB  
6GK6000-8HT01-0SA2

### Support

Mounting plate  
6GF3440-8CA  
Tri-plate  
6GF9002-7AD

### Opt. for Lens; Rings

0.5, 1, 5, 10, 20, 40 mm  
6GF9001-1BU

0.5, 1 mm  
6GF9001-1BU01

length doubler  
6GF9001-1BV

### Protective lens cover

Basic length glas  
no filter 6GF3540-8AC11  
red 6GF3540-8AC51  
infrared 6GF3540-8AC41  
IRUVcut 6GF3540-8AC31

Long version glas<sup>2)</sup>  
no filter 6GF3540-8AC12  
red 6GF3540-8AC52  
infrared 6GF3540-8AC42  
IRUVcut 6GF3540-8AC32

Basic length PMMA  
6GF3540-8AC21

Long version PMMA<sup>2)</sup>  
6GF3540-8AC22

<sup>1)</sup> not in combination with build-in lights;

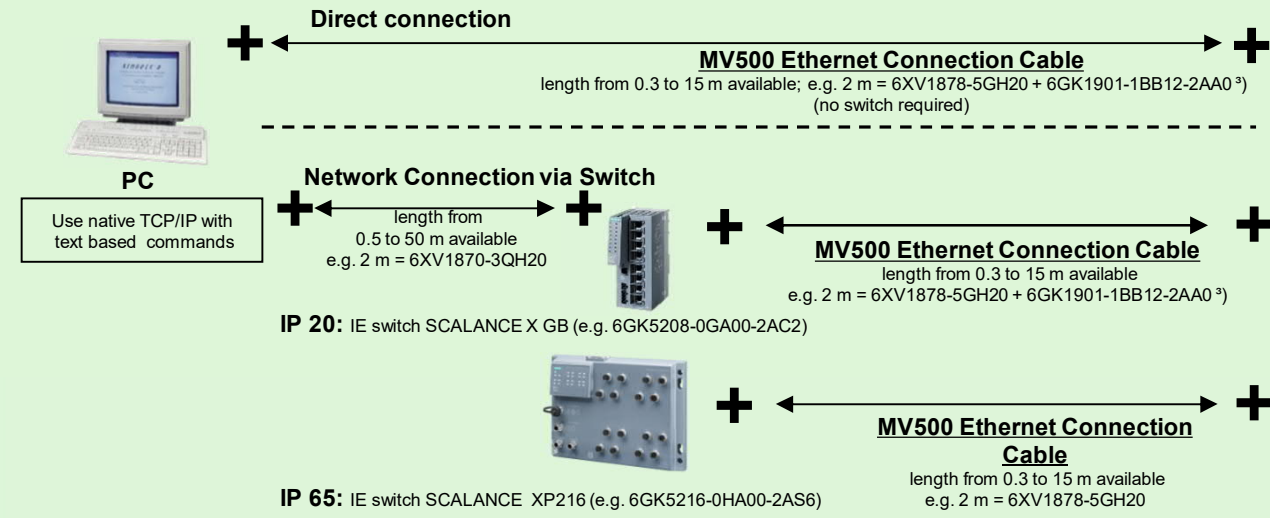
<sup>2)</sup> use long version of protective lens cover always and only with 6GF9001-1BK01 and 6GF3540-8EA05-0LL0

<sup>4)</sup> No usage of option „Micro SD Card“ with these lens

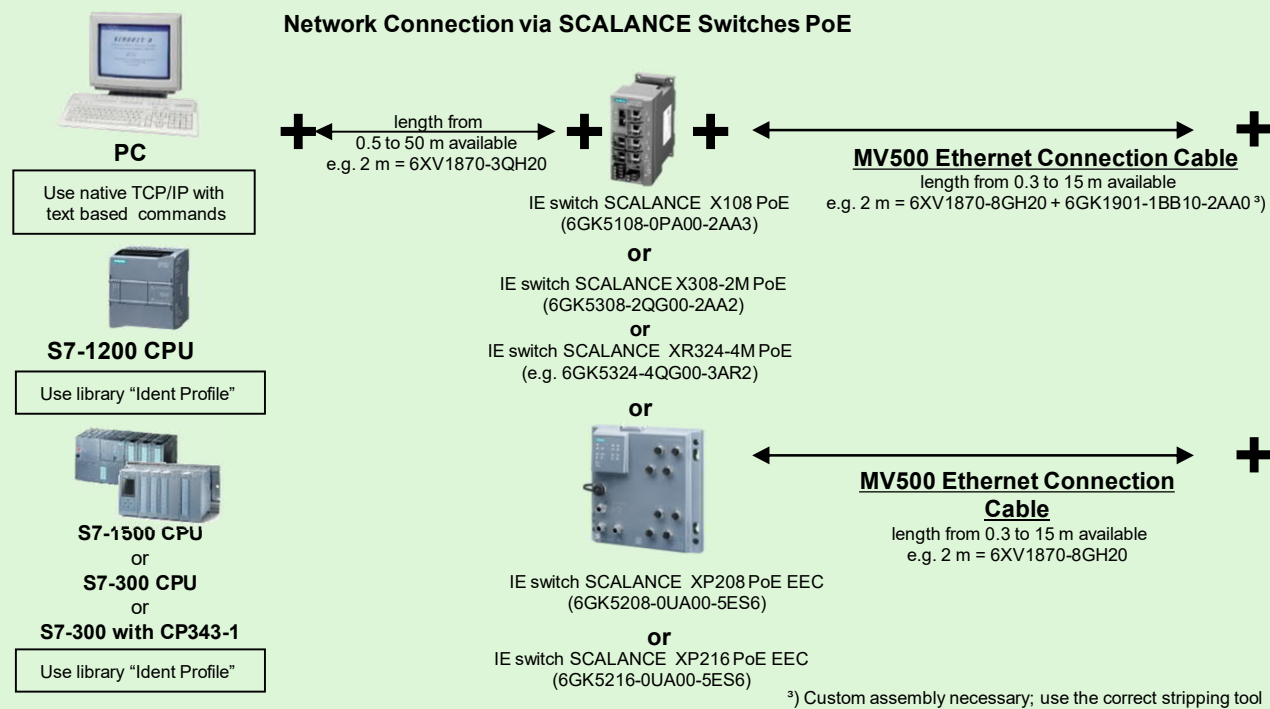
<sup>shux)</sup> indicates the types of camera which are allowed for usage; i.e. <sup>u)</sup> means MV5x0U is allowed

## Two parallel Networks on one Device: 1000MB + 100MB

### 1000MB / GigE Network, no PoE needed



### 100 MB / Profinet Network, Switch with PoE



## Reader

With power supply over Ethernet (PoE)



### MV550

S; 800 x 600 pixel:  
(6GF3550-0CD10)  
H; 1280 x 1024 pixel:  
(6GF3550-0GE10)

### MV560

U; 1920 x 1200 pixel:  
(6GF3560-0LE10)  
X; 2592 x 2048 pixel:  
(6GF3560-0HE10)



### Manual focus lens

- 6 mm: 6GF9001-1BB01<sup>s)</sup>
- 8.5 mm: 6GF9001-1BE01<sup>sh) 1)</sup>
- 12 mm: 6GF9001-1BL01<sup>sh)</sup>
- 12 mm: 6GF3560-8EA01-0FF0<sup>ux) 1) 4)</sup>
- 16 mm: 6GF9001-1BF01<sup>sh)</sup>
- 16 mm: 6GF3560-8EA02-0FF0<sup>ux) 1) 4)</sup>
- 25 mm: 6GF9001-1BG01<sup>sh)</sup>
- 25 mm: 6GF3560-8EA03-0FF0<sup>ux) 1) 4)</sup>
- 35 mm: 6GF9001-1BH01<sup>shux)</sup>
- 50 mm: 6GF9001-1BJ01<sup>shux)</sup>
- 75 mm: 6GF9001-1BK01<sup>shux) 2)</sup>



### E-Focus lens

- 12 mm: 6GF3540-8EA01-0LL0<sup>sh)</sup>
- 16 mm: 6GF3540-8EA02-0LL0<sup>shux)</sup>
- 25 mm: 6GF3540-8EA03-0LL0<sup>shux)</sup>
- 35 mm: 6GF3540-8EA04-0LL0<sup>shux)</sup>
- 50 mm: 6GF3540-8EA05-0LL0<sup>shux) 2)</sup>



### Lights build-in

- red basic: 6GF3540-8DA11
- red far: 6GF3540-8DA12
- red multi: 6GF3540-8DA13
- white multi: 6GF3540-8DA33
- infrared basic: 6GF3540-8DA41
- infrared far: 6GF3540-8DA42

## Options

**DO**

Additional cable for DO-supply is needed

10 m = 6GF3500-8BA21  
30 m = 6GF3500-8BA41

**Software**

Veri-Genius  
6GF3400-0SL02  
Pat-Genius  
6GF3400-0SL03

**Micro SD Card**

for Configuration Backup; 4GB  
6GK6000-8HT01-0SA2

**Support**

Mounting plate  
6GF3440-8CA  
Tri-plate  
6GF9002-7AD

**Opt. for Lens; Rings**

0.5, 1, 5, 10, 20, 40 mm  
6GF9001-1BU

0.5, 1 mm  
6GF9001-1BU01

length doubler  
6GF9001-1BV

**Protective lens cover**

Basic length glas  
no filter 6GF3540-8AC11  
red 6GF3540-8AC51  
infrared 6GF3540-8AC41  
IRUVcut 6GF3540-8AC31

Long version glas<sup>2)</sup>  
no filter 6GF3540-8AC12  
red 6GF3540-8AC52  
infrared 6GF3540-8AC42  
IRUVcut 6GF3540-8AC32

Basic length PMMA  
6GF3540-8AC21

Long version PMMA<sup>2)</sup>  
6GF3540-8AC22

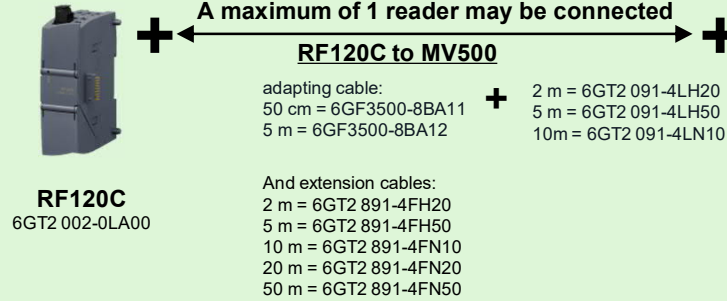
<sup>1)</sup> not in combination with build-in lights;

<sup>2)</sup> use long version of protective lens cover always and only with 6GF9001-1BK01 and 6GF3540-8EA05-0LL0

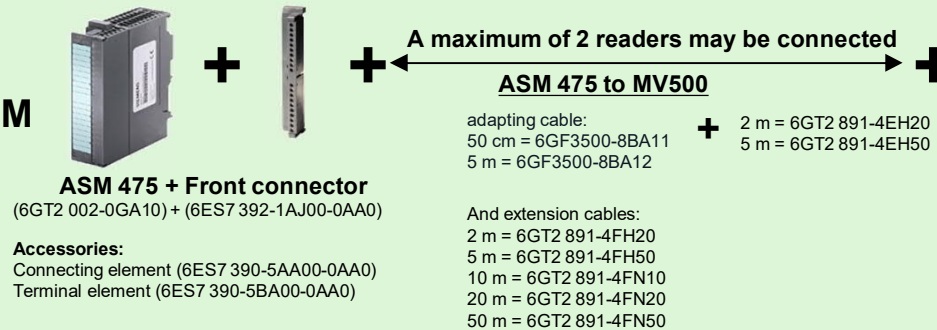
<sup>4)</sup> No usage of option „Micro SD Card“ with these lens

<sup>shux)</sup> indicates the types of camera which are allowed for usage; i.e. <sup>u)</sup> means MV5x0U is allowed

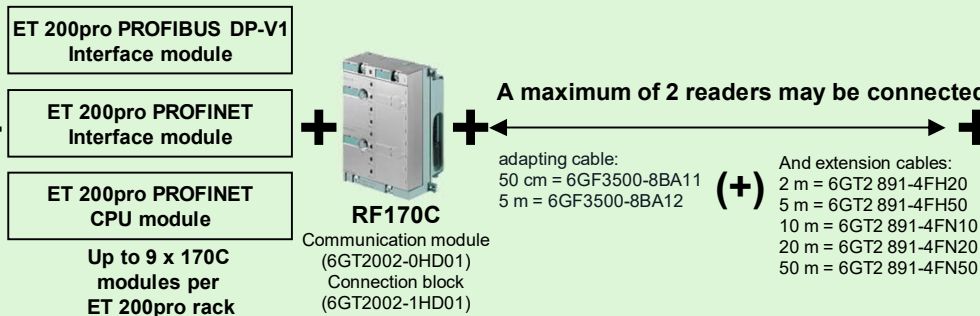
## SIMATIC PLC S7-1200



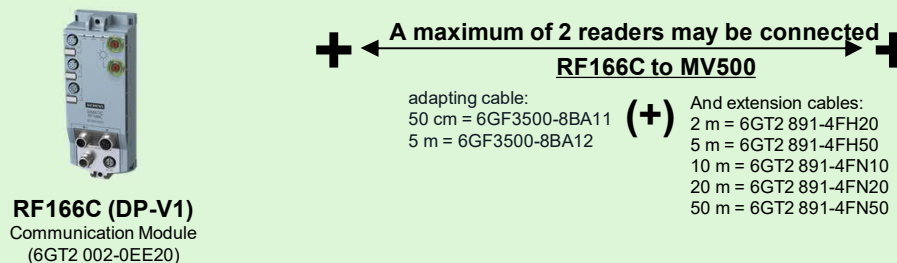
## SIMATIC PLC S7-300 Rack or S7-400 via ET 200M (DP-V1/PN-IO)



## ET 200pro via PROFIBUS or PROFINET or S7 PLC



## PROFIBUS



## Reader

Powered through connection cable



### MV540

S; 800 x 600 pixel:  
(6GF3540-0CD10)  
H; 1280 x 1024 pixel:  
(6GF3540-0GE10)

### MV550

S; 800 x 600 pixel:  
(6GF3550-0CD10)  
H; 1280 x 1024 pixel:  
(6GF3550-0GE10)

### MV560

U; 1920 x 1200 pixel:  
(6GF3560-0LE10)  
X; 2592 x 2048 pixel:  
(6GF3560-0HE10)



### Manual focus lens

6 mm: 6GF9001-1BB01<sup>s)</sup>  
8.5 mm: 6GF9001-1BE01<sup>sh) 1)</sup>  
12 mm: 6GF9001-1BL01<sup>sh)</sup>  
12 mm: 6GF3560-8EA01-0FF0<sup>ux) 1) 4)</sup>  
16 mm: 6GF9001-1BF01<sup>sh)</sup>  
16 mm: 6GF3560-8EA02-0FF0<sup>ux) 1) 4)</sup>  
25 mm: 6GF9001-1BG01<sup>sh)</sup>  
25 mm: 6GF3560-8EA03-0FF0<sup>ux) 1) 4)</sup>  
35 mm: 6GF9001-1BH01<sup>shux)</sup>  
50 mm: 6GF9001-1BJ01<sup>shux)</sup>  
75 mm: 6GF9001-1BK01<sup>shux) 2)</sup>



### E-Focus lens

12 mm: 6GF3540-8EA01-0LL0<sup>sh)</sup>  
16 mm: 6GF3540-8EA02-0LL0<sup>shux)</sup>  
25 mm: 6GF3540-8EA03-0LL0<sup>shux)</sup>  
35 mm: 6GF3540-8EA04-0LL0<sup>shux)</sup>  
50 mm: 6GF3540-8EA05-0LL0<sup>shux) 2)</sup>



### Lights build-in

red basic: 6GF3540-8DA11  
red far: 6GF3540-8DA12  
red multi: 6GF3540-8DA13  
white multi: 6GF3540-8DA33  
infrared basic: 6GF3540-8DA41  
infrared far: 6GF3540-8DA42

## Options

### Software

Veri-Genius  
6GF3400-0SL02  
Pat-Genius  
6GF3400-0SL03

### Micro SD Card

for Configuration  
Backup; 4GB  
6GK6000-8HT01-0SA2

### Support

Mounting plate  
6GF3440-8CA  
Tri-plate  
6GF9002-7AD

### Opt. for Lens; Rings

0.5, 1, 5, 10, 20, 40 mm  
6GF9001-1BU

0.5, 1 mm  
6GF9001-1BU01

length doubler  
6GF9001-1BV

### Protective lens cover

Basic length glas  
no filter 6GF3540-8AC11  
red 6GF3540-8AC51  
infrared 6GF3540-8AC41  
IRUVcut 6GF3540-8AC31

Long version glas<sup>2)</sup>  
no filter 6GF3540-8AC12  
red 6GF3540-8AC52  
infrared 6GF3540-8AC42  
IRUVcut 6GF3540-8AC32

Basic length PMMA  
6GF3540-8AC21

Long version PMMA<sup>2)</sup>  
6GF3540-8AC22

<sup>1)</sup> not in combination with build-in lights;

<sup>2)</sup> use long version of protective lens cover always and only with 6GF9001-1BK01 and 6GF3540-8EA05-0LL0

<sup>4)</sup> No usage of option „Micro SD Card“ with these lens

<sup>shux)</sup> indicates the types of camera which are allowed for usage; i.e. <sup>u)</sup> means MV5x0U is allowed

## PROFINET & Ethernet/IP & OPC UA & TCP/IP

### Communication Modules



**RF185C** (6GT2 002-0JE10) **RF186C** (6GT2 002-0JE20) **RF188C** (6GT2 002-0JE40)

A maximum of  
**1 reader at RF185C,**  
**2 readers at RF186C/CI,**  
**4 readers at RF188C/CI**  
**of MV500 may be connected**

adapting cable: (+) And extension cables:  
 50 cm = 6GF3500-8BA11 2 m = 6GT2 891-4FH20  
 5 m = 6GF3500-8BA12 5 m = 6GT2 891-4FH50  
 10 m = 6GT2 891-4FN10  
 20 m = 6GT2 891-4FN20  
 50 m = 6GT2 891-4FN50

### Additional IOs



**RF186CI** (6GT2 002-0JE50) **RF188CI** (6GT2 002-0JE60)

**RF18xCI to sensor**  
 Sensor cable from  
 0.5 to 15 m available  
 (e.g. 2 m = 6XV1801-2CH20)

### Types of IO-Link I/O module

IO-extension module  
 6ES7 14..... (up to 8xDI + 8xDC)

See page 76 for detailed information

Or one  
**Standard sensor**



Or one  
**Actor**



## Reader

Powered through connection cable



### MV540

S; 800 x 600 pixel:  
 (6GF3540-0CD10)  
 H; 1280 x 1024 pixel:  
 (6GF3540-0GE10)

### MV550

S; 800 x 600 pixel:  
 (6GF3550-0CD10)  
 H; 1280 x 1024 pixel:  
 (6GF3550-0GE10)

### MV560

U; 1920 x 1200 pixel:  
 (6GF3560-0LE10)  
 X; 2592 x 2048 pixel:  
 (6GF3560-0HE10)



### Manual focus lens

6 mm: 6GF9001-1BB01 <sup>s)</sup>  
 8.5 mm: 6GF9001-1BE01 <sup>sh) 1)</sup>  
 12 mm: 6GF9001-1BL01 <sup>sh)</sup>  
 12 mm: 6GF3560-8EA01-0FF0 <sup>ux) 1) 4)</sup>  
 16 mm: 6GF9001-1BF01 <sup>sh)</sup>  
 16 mm: 6GF3560-8EA02-0FF0 <sup>ux) 1) 4)</sup>  
 25 mm: 6GF9001-1BG01 <sup>sh)</sup>  
 25 mm: 6GF3560-8EA03-0FF0 <sup>ux) 1) 4)</sup>  
 35 mm: 6GF9001-1BH01 <sup>shux)</sup>  
 50 mm: 6GF9001-1BJ01 <sup>shux)</sup>  
 75 mm: 6GF9001-1BK01 <sup>shux) 2)</sup>



### E-Focus lens

12 mm: 6GF3540-8EA01-0LL0 <sup>sh)</sup>  
 16 mm: 6GF3540-8EA02-0LL0 <sup>shux)</sup>  
 25 mm: 6GF3540-8EA03-0LL0 <sup>shux)</sup>  
 35 mm: 6GF3540-8EA04-0LL0 <sup>shux)</sup>  
 50 mm: 6GF3540-8EA05-0LL0 <sup>shux) 2)</sup>



### Lights build-in

red basic: 6GF3540-8DA11  
 red far: 6GF3540-8DA12  
 red multi: 6GF3540-8DA13  
 white multi: 6GF3540-8DA33  
 infrared basic: 6GF3540-8DA41  
 infrared far: 6GF3540-8DA42



### Lights external

Red: 6GF3400-0LT01-8DA1  
 Infrared: 6GF3400-0LT01-7BA1  
 +  
 adapter M12/M12  
 (6GF3500-8BD10)  
 +  
 Mounting plate  
 (6GF3440-8CD01)

## Options

### Software

Veri-Genius  
 6GF3400-0SL02  
 Pat-Genius  
 6GF3400-0SL03

### Micro SD Card

for Configuration  
 Backup; 4GB  
 6GK6000-8HT01-0SA2

### Support

Mounting plate  
 6GF3440-8CA  
 Tri-plate  
 6GF9002-7AD

### Opt. for Lens; Rings

0.5, 1, 5, 10, 20, 40 mm  
 6GF9001-1BU

0.5, 1 mm  
 6GF9001-1BU01

length doubler  
 6GF9001-1BV

### Protective lens cover

Basic length glas  
 no filter 6GF3540-8AC11  
 red 6GF3540-8AC51  
 infrared 6GF3540-8AC41  
 IRUVcut 6GF3540-8AC31

Long version glas <sup>2)</sup>  
 no filter 6GF3540-8AC12  
 red 6GF3540-8AC52  
 infrared 6GF3540-8AC42  
 IRUVcut 6GF3540-8AC32

Basic length PMMA  
 6GF3540-8AC21

Long version PMMA <sup>2)</sup>  
 6GF3540-8AC22

<sup>1)</sup> not in combination with build-in lights;

<sup>2)</sup> use long version of protective lens cover always and only with 6GF9001-1BK01 and 6GF3540-8EA05-0LL0

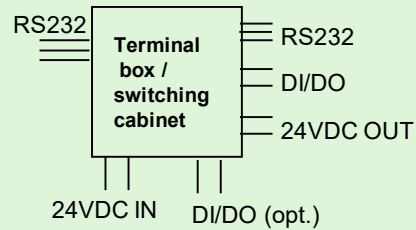
<sup>4)</sup> No usage of option „Micro SD Card“ with these lens

<sup>shux)</sup> indicates the types of camera which are allowed for usage; i.e. <sup>u)</sup> means MV5x0U is allowed

## Serial RS232



Simple text based protocol



1 Reader per COM port may be connected  
**RS 232 cable for MV500 (open wires)**  
 10 m = 6GF3500-8BA21  
 30 m = 6GF3500-8BA41

## Reader

With external power supply



### MV540

S; 800 x 600 pixel:  
 (6GF3540-0CD10)  
 H; 1280 x 1024 pixel:  
 (6GF3540-0GE10)

### MV550

S; 800 x 600 pixel:  
 (6GF3550-0CD10)  
 H; 1280 x 1024 pixel:  
 (6GF3550-0GE10)

### MV560

U; 1920 x 1200 pixel:  
 (6GF3560-0LE10)  
 X; 2592 x 2048 pixel:  
 (6GF3560-0HE10)



### Manual focus lens

6 mm: 6GF9001-1BB01 <sup>s)</sup>  
 8.5 mm: 6GF9001-1BE01 <sup>sh) 1)</sup>  
 12 mm: 6GF9001-1BL01 <sup>sh)</sup>  
 12 mm: 6GF3560-8EA01-0FF0 <sup>ux) 1) 4)</sup>  
 16 mm: 6GF9001-1BF01 <sup>sh)</sup>  
 16 mm: 6GF3560-8EA02-0FF0 <sup>ux) 1) 4)</sup>  
 25 mm: 6GF9001-1BG01 <sup>sh)</sup>  
 25 mm: 6GF3560-8EA03-0FF0 <sup>ux) 1) 4)</sup>  
 35 mm: 6GF9001-1BH01 <sup>shux)</sup>  
 50 mm: 6GF9001-1BJ01 <sup>shux)</sup>  
 75 mm: 6GF9001-1BK01 <sup>shux) 2)</sup>



### E-Focus lens

12 mm: 6GF3540-8EA01-0LL0 <sup>sh)</sup>  
 16 mm: 6GF3540-8EA02-0LL0 <sup>shu)</sup>  
 25 mm: 6GF3540-8EA03-0LL0 <sup>shux)</sup>  
 35 mm: 6GF3540-8EA04-0LL0 <sup>shux)</sup>  
 50 mm: 6GF3540-8EA05-0LL0 <sup>shux) 2)</sup>



### Lights build-in

red basic: 6GF3540-8DA11  
 red far: 6GF3540-8DA12  
 red multi: 6GF3540-8DA13  
 white multi: 6GF3540-8DA33  
 infrared basic: 6GF3540-8DA41  
 infrared far: 6GF3540-8DA42



### Lights external: ring

Red: 6GF3400-0LT01-8DA1  
 Infrared: 6GF3400-0LT01-7BA1  
 +  
 adapter M12/M12: 6GF3500-8BD10  
 mounting plate: 6GF3440-8CD01



### Lights external: panel

20x20 cm: 6GF3500-8DF30-1DA0  
 30x20 cm: 6GF3500-8DF30-2DA0  
 40x30 cm: 6GF3500-8DF30-3DA0

+  
**Mounting aid**  
 6GF3500-8CD

## Options

### DO

Wires included in power supply cable „Open wires“

### Software

Veri-Genius  
 6GF3400-0SL02  
 Pat-Genius  
 6GF3400-0SL03

### Micro SD Card

for Configuration Backup; 4GB  
 6GK6000-8HT01-0SA2

### Support

Mounting plate  
 6GF3440-8CA  
 Tri-plate  
 6GF9002-7AD

### Opt. for Lens; Rings

0.5, 1, 5, 10, 20, 40 mm  
 6GF9001-1BU

0.5, 1 mm  
 6GF9001-1BU01

length doubler  
 6GF9001-1BV

### Protective lens cover

Basic length glas  
 no filter 6GF3540-8AC11  
 red 6GF3540-8AC51  
 infrared 6GF3540-8AC41  
 IRUVcut 6GF3540-8AC31

Long version glas <sup>2)</sup>  
 no filter 6GF3540-8AC12  
 red 6GF3540-8AC52  
 infrared 6GF3540-8AC42  
 IRUVcut 6GF3540-8AC32

Basic length PMMA  
 6GF3540-8AC21

Long version PMMA <sup>2)</sup>  
 6GF3540-8AC22

<sup>1)</sup> not in combination with build-in lights;

<sup>2)</sup> use long version of protective lens cover always and only with 6GF9001-1BK01 and 6GF3540-8EA05-0LL0

<sup>4)</sup> No usage of option „Micro SD Card“ with these lens

<sup>shux)</sup> indicates the types of camera which are allowed for usage; i.e. <sup>u)</sup> means MV5x0U is allowed

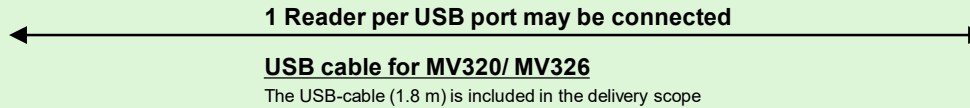
## PC via USB



PC





Panel PC



### Reader

Powered through USB-cable

**MV320**  
(6GF3320-0HT01)

**MV326 with Docking station**  
(6GF3326-0HT01)

### Options



**Spare Battery for MV326**  
(6GF3326-0AC07 \*)

## RF170C

ET200pro via PROFIBUS or PROFINET or S7 PLC

ET200pro PROFIBUS DP-V1 Interface module

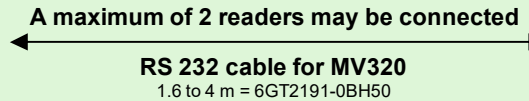
ET200pro PROFINET Interface module

ET200pro PROFINET CPU module

Up to 9 x 170C modules per ET200pro rack



**RF170C**  
Communication module (6GT2 002-0HD01)  
Connection block (6GT2 002-1HD01)



### Reader

Powered through connection cable



**MV320**  
(6GF3320-0HT01)



**Metal stand for MV320**  
(6GF3320-0AC07)

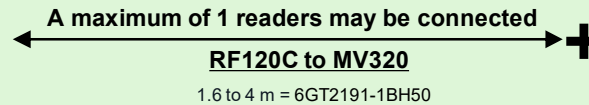
## SIMATIC PLC

S7-1200



**RF120C**  
6GT2 002-0LA00

Up to 3 x RF120C modules per S7-1200 rack



\* planned for November 2021

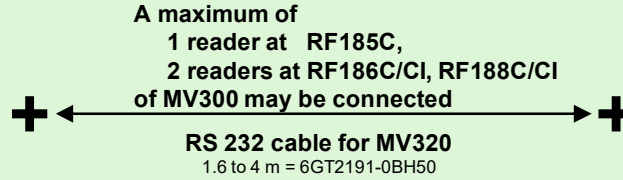


## PROFINET & Ethernet/IP

Communication Modules



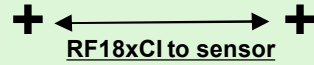
**RF185C** (6GT2 002-0JE10) **RF186C** (6GT2 002-0JE20) **RF188C** (6GT2 002-0JE40)



Additional IOs



**RF186CI** (6GT2 002-0JE50) **RF188CI** (6GT2 002-0JE60)



Sensor cable from  
 0.5 to 15 m available  
 (e.g. 2 m = 6XV1801-2CH20)



Types of IO-Link  
 IO module

IO-extension module  
 6ES7 14..... (up to 8xDI + 8xDO)

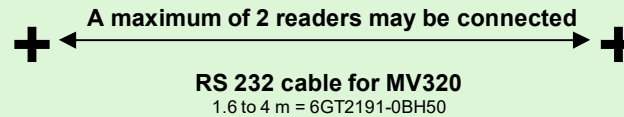
See page 76 for detailed information

Or one Standard sensor  
 Or one Actor

## PROFIBUS



**RF166C (DP-V1)**  
 Communication Module  
 (6GT2 002-0EE20)



## RS232

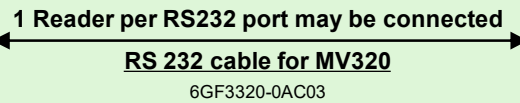
For SIMATIC and other PLC



i.e. S7-1500 CPU



**CM PtP RS 232 BA**  
 (6ES7540-1AD00-0AA0)



power supply

5V cable via USB  
 1m = 6GT2091-7UH10



- use an already available and unused USB port or
- standard USB power supply from the market

## Reader

Powered through connection cable



**MV320**  
 (6GF3320-0HT01)

## Options



**Metal stand for MV320**  
 (6GF3320-0AC07)

## Reader

With external power supply



**MV320**  
 (6GF3320-0HT01)

## PROFINET & Ethernet/IP

Communication Modules

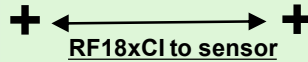


**RF185C** (6GT2 002-0JE10) **RF186C** (6GT2 002-0JE20) **RF188C** (6GT2 002-0JE40)

Additional IOs



**RF186CI** (6GT2 002-0JE50) **RF188CI** (6GT2 002-0JE60)



**RF18xCI to sensor**

Sensor cable from 0.5 to 15 m available (e.g. 2 m = 6XV1801-2CH20)



**Types of IO-Link I/O module**

IO-extension module  
6ES7 14..... (up to 8xDI + 8xDO)

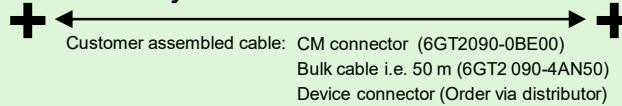
See page 76 for detailed information



Or one **Standard sensor**

Or one **Actor**

A maximum of  
**1 serial device at RF185C,**  
**2 serial devices at RF186C/CI,**  
**4 serial devices at RF188C/CI\*\***  
may be connected via **RS232\*** or **RS422**



Customer assembled cable: CM connector (6GT2090-0BE00)  
Bulk cable i.e. 50 m (6GT2 090-4AN50)  
Device connector (Order via distributor)

## Serial device

powered through connection cable

**Provided power from CM:**

**24 Volt**  
up to 800 mA for each device

**5 Volt\* (only when RS232 is used)**  
up to 500 mA for each device

**Examples of devices:**



i.e. scanners, handheld devices

## Options

**Always refer to the manual of the connected device**

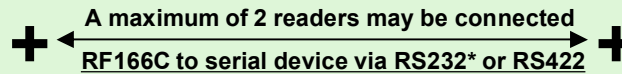
**Cabling:**

Use a bulk cable (i.e. 6GT2090-4AN50) and assemble left side the CM connector 6GT2090-0BE00  
The right side connector you may order via distributor for electronic components

## PROFIBUS



**RF166C (DP-V1)**  
Communication Module  
(6GT2 002-0EE20)



A maximum of **2 readers** may be connected  
**RF166C to serial device via RS232\* or RS422**  
Customer assembled cable: CM connector (6GT2090-0BE00)  
Bulk cable i.e. 50 m (6GT2 090-4AN50)  
Device connector (Order via distributor)

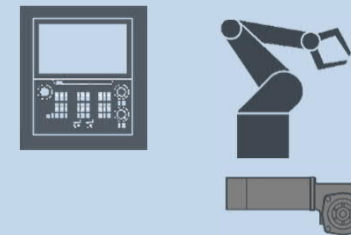
## Serial device

powered with external power supply

**Provided power:**

**Always customer specific power supply**

**Examples of devices:**



i.e. robots, motors, tooling machines

Or

Use the cable delivered by the device, cut the left side connector and replace it with a plug 6GT2090-0BE00

Or (only RS422)

You may use one of the standard reader cable 6GT2891-4F, cut and replace the connector on the right side (device side)

## RF170C

**ET200pro via PROFIBUS or PROFINET or S7 PLC**

ET200pro PROFIBUS DP-V1 Interface module

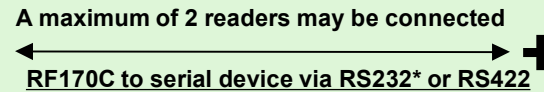
ET200pro PROFINET Interface module

ET200pro PROFINET CPU module

Up to **9 x 170C** modules per ET200pro rack



**RF170C**  
Communication module (6GT2 002-0HD01)  
Connection block (6GT2 002-1HD01)



A maximum of **2 readers** may be connected  
**RF170C to serial device via RS232\* or RS422**  
Customer assembled cable: CM connector (6GT2090-0BE00)  
Bulk cable i.e. 50 m (6GT2 090-4AN50)  
Device connector (Order via distributor)

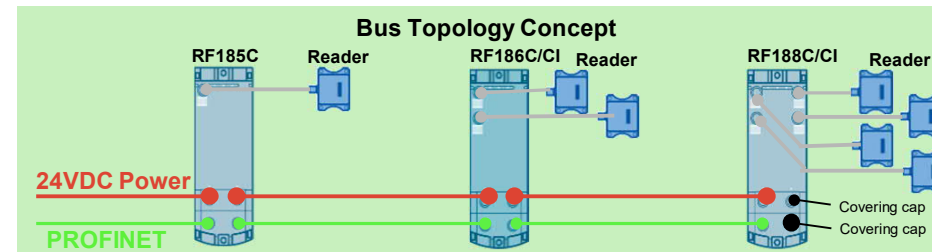
\* always use short cables (maximum 5 m) when using 5V power supply from CM  
\*\* on RS232 usage: only 2 serial devices can be connected

# RF18xC /CI Bill of Materials Guide



The RF18xC is a communication module that can connect to Ethernet-based networks via an M12 d-coded connector. It supports a variety of protocols like PROFINET, Ethernet/IP, OPC UA, TCP/IP. A integrated switch enables star and line topologies. The module has L-coded M12 connectors for the 24 V power supply. The power can be transferred to additional loads at a second L-coded female connector. The L-coded connectors can transmit a continuous current of up to 16 A.

The designer chooses whether to purchase pre-made network cables or to make his/her own. Note that no Termination Resistors are required on end-nodes, but covering caps are highly recommended.



| Description   | Part Number  | Notes  |
|---|--|--|
| RF185C<br>RF186C<br>RF188C<br>RF186CI<br>RF188CI  | 6GT2 002-0JE10<br>6GT2 002-0JE20<br>6GT2 002-0JE40<br>6GT2 002-0JE50<br>6GT2 002-0JE60 | 1 read/write device or reader<br>2 read/write devices or readers<br>4 read/write devices or readers<br>2 read/write devices or readers plus sensors<br>4 read/write devices or readers plus sensors<br>can be connected to PROFINET or Ethernet (OPC UA) |
| <b>Make your own M12 PROFINET connection cables</b>   |  |  |
| SIMATIC NET Ethernet M12 4-pin connector  | 6GK1 901-0DB10-6AA0  | Ethernet to CM. 2 x M12 4-pin connectors needed if loop-through  |
| RJ45 connector with metal casing and FC connection system, 180° cable outlet  | 6GK1 901-1BB10-2AA0  | For connection into standard RJ45-type Ethernet switch   |
| ETHERNET industrial cable 2x2, Type A, unassembled  | 6XV1 840-2AH10   | Sold by the meter<br>Minimum length 20 m; Maximum length 1000 m  |
| <b>Use pre-made M12 PROFINET connection cables</b>  |  |  |
| Pre-assembled PROFINET cable with 4-pin M12 on both ends  | 6XV1 870-8Axxx*<br>6XV1 870-8Gxxx*   | ...8A = 180° , ...8G = 90°<br>0.3 m– 15 m pre-assembled cable  |
| Pre-assembled PROFINET cable with 4-pin M12 / RJ45  | 6XV1871-5Txxx*   | 0.3 m– 15 m pre-assembled cable<br>RJ45 for switch / PC / controller   |
| <b>Make your own M12 L-coded power supply connection cables</b>   |  |  |
| Power cable (4 wire x 1.5 mm <sup>2</sup> , trailing type)  | 6XV1801-2B   | For the supply of the 24 VDC power, from 20m up to 1000m   |
| M12 L-coded – male connector  | 6GK1906-0EA00  | For the loop-through of the 24 VDC power, screw joint for wires up to 1.5 mm <sup>2</sup>  |
| M12 L-coded – female connector  | 6GK1906-0EB00  | For the supply side of 24 VDC power, screw joint for wires up to 1.5 mm <sup>2</sup>   |
| <b>Use pre-made M12 L-coded power supply connection cables</b>  |  |  |
| Cable for supply voltage with pre-Assembled M12 L-coded connectors 180°   | 6XV1801-6Dxxx*   | Lengths available from 0.5 m up to 15 m  |
| Cable for supply voltage with pre-Assembled M12 L-coded connectors 90°  | 6XV1801-6Gxxx*   | Lengths available from 0.5 m up to 15 m  |
| Cable for supply voltage assembled with M12 A-coded 4pin male connector and M12 L-coded connector female at CM side | 6GT2091-0PH50  | Length 5 m<br>Useful to connect the CM directly to a power supply of type 6GT2898-0ACx0  |

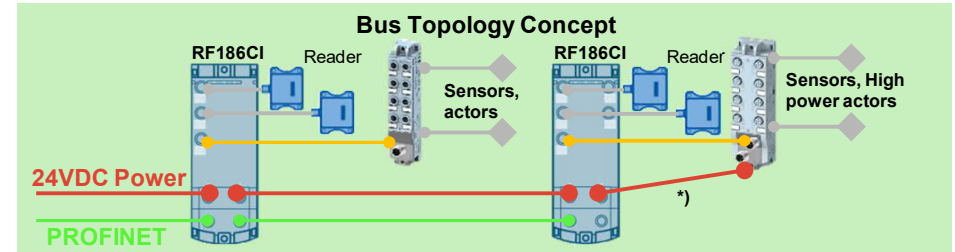
\* These cables are available in various lengths (see catalogue or mall)

| Description   | Part Number         | Notes  |
|---|---------------------|--|
| <b>Make your own RF18xC to RF reader cables</b>   |                     |  |
| Refer to the Bulk cable and connectors tables (Pages 79 - 80)                           |                     |  |
| <b>Use pre-made RF18xC to RF reader cables</b>  |                     |  |
| Reader cable R200/ RF300/ MV440 or Extension cable for RF200/ RF300/ MV400 /MV500       | 6GT2 891-4FH20      | 2 meter pre-assembled cable  |
|   | 6GT2 891-4FH50      | 5 meter pre-assembled cable  |
|   | 6GT2 891-4FN10      | 10 meter pre-assembled cable   |
|   | 6GT2 891-4FN20      | 20 meter pre-assembled cable   |
|   | 6GT2 891-4FN50      | 50 meter pre-assembled cable   |
| Reader cable to RF1000  | 6GT2891-4UH20       | 2 meter pre-assembled cable  |
| Reader cable to MV320   | 6GT2191-0BH50       | 5 meter pre-assembled coiled cable with a usable length between 1.6 and 4 meter      |
| Reader cable MV420  | 6GF3420-0AC00-2CB0  | 2 meter pre-assembled cable  |
| Reader cable MV500  | 6GF3500-8BA11       | 0.5 meter pre-assembled cable  |
|   | 6GF3500-8BA12       | 5 meter pre-assembled cable  |
| <b>Additional components</b>  |                     |  |
| Covering caps for unused M12 ports  | 3RX9 802-0AA00      | 1 pack = 10 items  |
| Labels 10 x 5 mm for CM channel marking   | 6ES7194-2BA00-0AA0  | For additional marking. Per default labels are included in CM package                |
| <b>Make your own M12 sensor cable (only RF18xC/CI variants)</b>                         |                     |  |
| M12 A-coded – male connector, 4 pin   | 6GK1 907-0DB10-6AA3 | Sensor Connector at CM-side for cable diameter 6 – 8 mm                              |
| M12 A-coded – female connector, 4 pin   | 6GK1 907-0DC10-6AA3 | Sensor-side connector for cable diameter 6 – 8 mm                                    |
| Sensor cable five wire  | 6XV1801-2C          | bulk cable; minimum order 20 meter   |
| M12 A-coded – male connector, 5 pin, 180°   | 6GK1 908-0DB10-6AA0 | Sensor connector at CM-side<br>Required for assembling an IO-Link port Class B cable |
| M12 A-coded – female connector, 5 pin, 180°   | 6GK1 908-0DC10-6AA0 | Sensor connector at sensor-side  |
| <b>Use pre-made M12 sensor cable (only RF18xC/CI variants)</b>                          |                     |  |
| IO-Link (port Class B) sensor cable with M12 A-coded 5-pin connectors (male and female) | 6XV1801-2Cxxx*      | Lengths available from 0.5 m up to 15 m  |



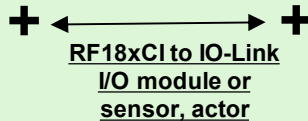
The RF18xCI variants allow the connecting of a variety of IO-Link I/O modules. A maximum of 8 sensors (inputs) and 8 actors (outputs) may be connected to one CM. There is no additional configuration necessary for the I/Os. The I/Os can be used with all available protocols: PROFINET, Ethernet/IP, OPC UA and TCP/IP. Read this page for connecting details.

The designer chooses whether to purchase pre-made sensor cable or to make his/her own (see page 75)



| Description | Part Number    | Notes   |
|-------------|----------------|---|
| RF186CI     | 6GT2 002-0JE50 | 2 read/write devices or readers plus sensors  |
| RF188CI     | 6GT2 002-0JE60 | 4 read/write devices or readers plus sensors<br>can be connected to PROFINET or Ethernet (OPC UA) |

## Sensor/actor cabling

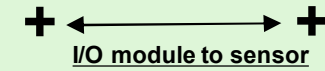


- 0.5 m = 6XV1801-2CE50
- 1 m = 6XV1801-2CH10
- 1.5 m = 6XV1801-2CH15
- 2 m = 6XV1801-2CH20
- 3 m = 6XV1801-2CH30
- 5 m = 6XV1801-2CH50
- 10 m = 6XV1801-2CN10
- 15 m = 6XV1801-2CN15



### I/O modules with M8 sensor connectors

- 6ES7 141-5BF00-0BLO (8xDI)
- 6ES7 143-5BF00-0BLO (4xDI + 4xDO)

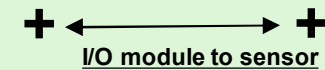


Use sensor cables from the sensor market



### I/O modules with M12 sensor connectors

- 6ES7 141-5AH00-0BLO (8xDI)
- 6ES7 143-5AH00-0BLO (8xDI + 8xDO)



- 0.5 m = 6XV1801-2CE50
- 1 m = 6XV1801-2CH10
- 1.5 m = 6XV1801-2CH15
- 2 m = 6XV1801-2CH20
- 3 m = 6XV1801-2CH30
- 5 m = 6XV1801-2CH50
- 10 m = 6XV1801-2CN10
- 15 m = 6XV1801-2CN15

- 6ES7 142-5AF00-0BLO (8xDO, 2A)
- Extra M12 L-coded power cable needed \*)



### One standard sensor

Or one actor, lamp

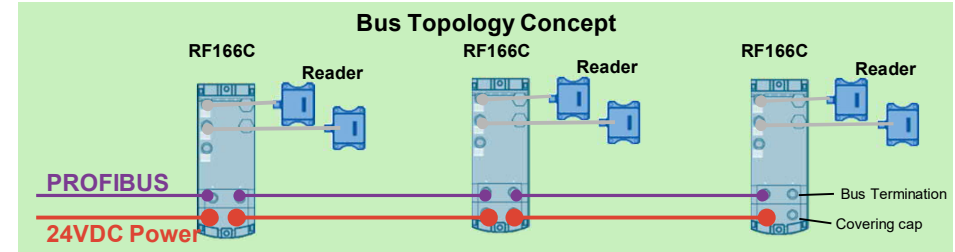
\*) Some IO modules for high output current need an extra L-coded power cable  
6XV1801-6Dxxx from 0.5 to 15 m

# RF166C Bill of Materials Guide



The RF166C is a PROFIBUS DP-V1 interface module. The PROFIBUS connection is made via M12 B-coded connector.  
The module has L-coded M12 connectors for the 24 V power supply. The power can be transferred to additional loads at a second L-coded female connector. The L-coded connectors can transmit a continuous current of up to 16 A.

The designer chooses whether to purchase pre-made network cables or to make his/her own. Note that another design consideration is whether the RF166C is a PROFIBUS end-node or not. If it is an end-node, a Termination Resistor is required.



| Description   | Part Number     | Notes  |
|---|-----------------|--|
| RF166C  | 6GT2 002-0EE20  | For PROFIBUS DP-V1 networks.<br>2 read/write devices or readers can be connected<br>The devices may have RS422 or RS232 interface                  |
| <b>Make your own M12 PROFIBUS connection cables</b>   |                 |  |
| PROFIBUS M12 connector plug (5 per pack) with socket insert   | 6GK1 905-0EB00  | For the supply side of the PROFIBUS network.<br>Use Termination Resistor on the 2nd M12 port if RF166C is an end node                              |
| PROFIBUS M12 connector plug (5 per pack) with pin insert  | 6GK1 905-0EA00  | For loop-through side of the PROFIBUS network.<br>Both ports are used. No Termination Resistor needed for that RF166C                              |
| POFIBUS standard non-assembled cable  | 6XV1 830-0EH10  | Sold by the meter<br>Minimum length 20 m<br>Maximum length 10000 m   |
| M12 Termination Resistor for PROFIBUS (5 per pack)  | 6GK1 905-0EC00  | Required if RF166C is an end-node  |
| <b>Use pre-made M12 PROFIBUS connection cables</b>  |                 |  |
| PROFIBUS cable with pre-assembled M12 connectors  | 6XV1 830-3Dxxx* | See Online Mail ( <a href="http://mail.automation.siemens.com">http://mail.automation.siemens.com</a> )<br>Lengths available from 0.5 m up to 15 m |
| M12 Termination Resistor for PROFIBUS (5 per pack)  | 6GK1 905-0EC00  | Required if RF166C is an end-node  |
| <b>Make your own M12 L-coded power supply connection cables</b>   |                 |  |
| Power cable (4 wire x 1.5 mm <sup>2</sup> , trailing type)  | 6XV1801-2B      | For the supply of the 24 VDC power, from 20m up to 1000m   |
| M12 L-coded – male connector  | 6GK1906-0EA00   | For the loop-through of the 24 VDC power, screw joint for wires up to 1.5 mm <sup>2</sup>  |
| M12 L-coded – female connector  | 6GK1906-0EB00   | For the supply side of 24 VDC power, screw joint for wires up to 1.5 mm <sup>2</sup>   |
| <b>Use pre-made M12 L-coded power supply connection cables</b>  |                 |  |
| Cable for supply voltage with pre-Assembled M12 L-coded connectors 180°   | 6XV1801-6Dxxx*  | Lengths available from 0.5 m up to 15 m  |
| Cable for supply voltage with pre-Assembled M12 L-coded connectors 90°  | 6XV1801-6Gxxx*  | Lengths available from 0.5 m up to 15 m  |
| Cable for supply voltage assembled with M12 A-coded 4pin male connector and M12 L-coded connector female at CM side | 6GT2091-0PH50   | Length 5 m<br>Useful to connect the CM directly to a power supply of type 6GT2898-0ACx0  |

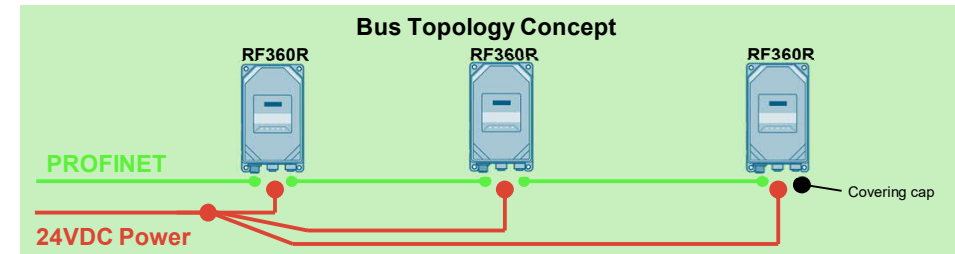
\* These cables are available in various lengths (see catalogue or mail)

| Description   | Part Number         | Notes   |
|---|---------------------|---|
| <b>Make your own RF166C to RF reader cables</b>   |                     |   |
| Refer to the Bulk cable and connectors tables (Pages 79- 80)                                    |                     |   |
| <b>Use pre-made RF166C to RF reader cables</b>  |                     |   |
| Reader cable R200/ RF300/ RF600 /MV440 or Extension cable for RF200/ RF300/ RF600/ MV400 /MV500 | 6GT2 891-4FH20      | 2 meter pre-assembled cable   |
|   | 6GT2 891-4FH50      | 5 meter pre-assembled cable   |
|   | 6GT2 891-4FN10      | 10 meter pre-assembled cable  |
|   | 6GT2 891-4FN20      | 20 meter pre-assembled cable  |
|   | 6GT2 891-4FN50      | 50 meter pre-assembled cable  |
| Reader cable to RF1000  | 6GT2891-4UH20       | 2 meter pre-assembled cable   |
| Reader cable to MV320   | 6GT2191-0BH50       | 5 meter pre-assembled coiled cable with a usable length between 1.6 and 4 meter                             |
| Reader cable MV420  | 6GF3420-0AC00-2CB0  | 2 meter pre-assembled cable   |
| Reader cable MV500  | 6GF3500-8BA11       | 0.5 meter pre-assembled cable   |
|   | 6GF3500-8BA12       | 5 meter pre-assembled cable   |
| <b>Additional components</b>  |                     |   |
| Covering caps for unused M12 ports  | 3RX9 802-0AA00      | 1 pack = 10 items   |
| Labels 10 x 5 mm for CM channel marking   | 6ES7194-2BA00-0AA0  | For additional marking. Per default labels are included in CM package                                       |
| <b>Make your own M12 Ethernet connection cables (needed for web-based management)</b>           |                     |   |
| SIMATIC NET Ethernet M12 4-pin connector  | 6GK1 901-0DB10-6AA0 | Ethernet to RF166C. 2 x M12 4-pin connectors needed if loop-through   |
| RJ45 connector with metal casing and FC connection system, 180° cable outlet                    | 6GK1 901-1BB10-2AA0 | For connection into standard RJ45-type Ethernet switch  |
| ETHERNET industrial cable 2x2, Type A, unassembled  | 6XV1 840-2AH10      | Sold by the meter<br>Minimum length 20 m; Maximum length 1000 m   |
| <b>Use pre-made M12 Ethernet connection cables (needed for web-based management)</b>            |                     |   |
| Pre-assembled Ethernet cable with 4-pin M12 at RF166C and RJ45 at computer                      | 6XV1871-5Txxx*      | 2 m– 15 m pre-assembled cable<br>Use this cable type if the wbm of the RF166C is directly connected to a PC |
| Pre-assembled PROFINET cable with 4-pin M12 on both ends  | 6XV1 870-8xxx*      | 0.3 m– 15 m pre-assembled cable<br>Use this cable type if the RF166C is connected to a IP 65 switch         |



The RF360R is a reader from the RF300 family that can connect to Ethernet-based networks via an M12 d-coded connector. It supports a variety of protocols like PROFINET, Ethernet/IP, OPC UA, TCP/IP. A integrated switch enables star and line topologies. The module has L-coded M12 connectors for the 24 V power supply.

The designer chooses whether to purchase pre-made network cables or to make his/her own. Note that no Termination Resistors are required on end-nodes, but covering caps are highly recommended.



| Description                        | Part Number    | Notes             |
|------------------------------------|----------------|-------------------|
| <b>Additional components</b>       |                |                   |
| Covering caps for unused M12 ports | 3RX9 802-0AA00 | 1 pack = 10 items |

| Description   | Part Number                        | Notes   |
|---|------------------------------------|---|
| RF360R  | 6GT2801-5BA30                      | RF300 Reader with integrated antenna  |
| <b>Make your own M12 PROFINET connection cables</b>   |                                    |   |
| SIMATIC NET Ethernet M12 4-pin connector  | 6GK1 901-0DB10-6AA0                | Ethernet to reader. 2 x M12 4-pin connectors needed if loop-through                         |
| RJ45 connector with metal casing and FC connection system, 180° cable outlet  | 6GK1 901-1BB10-2AA0                | For connection into standard RJ45-type Ethernet switch                                      |
| ETHERNET industrial cable 2x2, Type A, unassembled  | 6XV1 840-2AH10                     | Sold by the meter<br>Minimum length 20 m; Maximum length 1000 m                             |
| <b>Use pre-made M12 PROFINET connection cables</b>  |                                    |   |
| Pre-assembled PROFINET cable with 4-pin M12 on both ends  | 6XV1 870-8Axxx*<br>6XV1 870-8Gxxx* | ...8A = 180° , ...8G = 90°<br>0.3 m– 15 m pre-assembled cable                               |
| Pre-assembled PROFINET cable with 4-pin M12 / RJ45  | 6XV1871-5Txxx*                     | 0.3 m– 15 m pre-assembled cable<br>RJ45 for switch / PC / controller                        |
| <b>Make your own M12 L-coded power supply connection cables</b>   |                                    |   |
| Power cable (4 wire x 1.5 mm <sup>2</sup> , trailing type)  | 6XV1801-2B                         | For the supply of the 24 VDC power, from 20m up to 1000m                                    |
| M12 L-coded – male connector  | 6GK1906-0EA00                      | For the loop-through of the 24 VDC power, screw joint for wires up to 1.5 mm <sup>2</sup>   |
| M12 L-coded – female connector  | 6GK1906-0EB00                      | For the supply side of 24 VDC power, screw joint for wires up to 1.5 mm <sup>2</sup>        |
| <b>Use pre-made M12 L-coded power supply connection cables</b>  |                                    |   |
| Cable for supply voltage with pre-Assembled M12 L-coded connectors 180°   | 6XV1801-6Dxxx*                     | Lengths available from 0.5 m up to 15 m   |
| Cable for supply voltage with pre-Assembled M12 L-coded connectors 90°  | 6XV1801-6Gxxx*                     | Lengths available from 0.5 m up to 15 m   |
| Cable for supply voltage assembled with M12 A-coded 4pin male connector and M12 L-coded connector female at CM side | 6GT2091-0PH50                      | Length 5 m<br>Useful to connect the reader directly to a power supply of type 6GT2898-0ACx0 |

\* These cables are available in various lengths (see catalogue or mall)

# Bulk Cable and Connectors

|   | RF166C   | RF120C  | ASM 475  | RS232 to PC  | Ethernet to PC  | RF170C  | RF185C, RF186C/CI,<br>RF188C/CI   |
|---|--|---|--|--|---|---|---|
| <b>RF200</b>  |  |   |  |  |   |   |   |
| <b>RF2x0R<br/>(IO-Link)</b>   | <b>For IP 20 Master with screws or push in:</b><br>6XV1 801-2C (5 wire sensor cable; minimum order 20 m)<br>6GK1 908-0DC10-6AA0 (reader connector; never assemble pin 2) |   |  | <b>For IP 67 Master with M12:</b><br>6XV1 801-2C (5 wire sensor cable; minimum order 20 m)<br>6GK1 908-0DC10-6AA0 (reader connector; never assemble pin 2)<br>6GK1 908-0DB10-6AA0 (IO-Link master connector) |   |   |   |
| <b>RF2X0R<br/>RF210M<br/>(RS422)<br/>(CM type)</b>                    | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>6GT2090-0BE00 (CM connector)          | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>9-pin submin-D/M (CM connector)¹ | 6GT2090-4AN50 (50 m cable)<br>6GT2090-4AT12 (120 m cable)<br>6GT2090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>20-pin S7-300 (CM connector) | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>PC side: interface converter RS422/ RS232                                 | Not applicable  | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>6GT2090-0BE00 (CM connector) | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>6GT2090-0BE00 (CM connector) |
| <b>RF240R<br/>RF250R<br/>RF260R<br/>RF285R<br/>RF290R<br/>(RS232)</b> | Not applicable   | Not applicable  | Not applicable   | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>6GT2 490-1AA00 (PC connector)   | Not applicable  | Not applicable  | Not applicable  |
| <b>RF300</b>  |  |   |  |  |   |   |   |
| <b>RF3x0R<br/>(RS422)<br/>(CM type)</b>                               | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>6GT2090-0BE00 (CM connector)          | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>9-pin submin-D/M (CM connector)¹ | 6GT2090-4AN50 (50 m cable)<br>6GT2090-4AT12 (120 m cable)<br>6GT2090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>20-pin S7-300 (CM connector) | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>PC side: interface converter RS422/ RS232                                 | Not applicable  | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>6GT2090-0BE00 (CM connector) | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>6GT2090-0BE00 (CM connector) |
| <b>RF38xR<br/>(RS232)</b>   | Not applicable   | Not applicable  | Not applicable   | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>6GT2 490-1AA00 (PC connector)   | Not applicable  | Not applicable  | Not applicable  |
| <b>RF600</b>  |  |   |  |  |   |   |   |
| <b>RF650R</b>   | Not applicable   | Not applicable  | Not applicable   | Not applicable   | 6XV1 840-2AH10 (>20 m cable)<br>6GK1901-1BB10-2AA0 (RJ45, reader connector + network connector)                                 | Not applicable  | Not applicable  |
| <b>RF610R/<br/>RF615R/<br/>RF680R/<br/>RF685R</b>                     | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>6GT2090-0BE00 (CM connector)          | Not applicable  | Not applicable   | Not applicable   | 6XV1 840-2AH10 (>20 m cable)<br>6GK1901-0DB20-6AA0 (M12 Plug, reader connector)<br>6GK1901-1BB10-2AA0 (RJ45, network connector) | Not applicable  | Not applicable  |
| <b>RF1000</b>   |  |   |  |  |   |   |   |
| <b>RF1040R/<br/>RF1070R</b>   | Always use assembled cables:<br>6GT2891-4UH20 (2m)   | Always use assembled cables:<br>6GT2891-6UH20 (2m)  | Not applicable   | Always use assembled cables:<br>6GT2891-2UH30 (3m, open)<br>6GT2891-7UH18 (1.8m, sub-D)  | Not applicable  | Always use assembled cables<br>6GT2891-4UH20 (2m)   | Always use assembled cables:<br>6GT2891-4UH20 (2m)  |

|                      | RF166C  | RF120C  | ASM 475  | RS232 to PC  | Ethernet to PC  | RF170C  | RF185C, RF186C/CI, RF188C/CI  |
|----------------------|---|---|--|--|---|---|---|
| <b>MV400 / MV500</b> |   |   |  |  |   |   |   |
| <b>MV420</b>         | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>12-pin M16/F (reader connector) <sup>2</sup><br>6GT2090-0BE00 (CM connector) | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>12-pin M16/F (reader connector) <sup>2</sup><br>9-pin submin-D/M (CM connector) <sup>1</sup> | 6GT2 090-4AN50 (50 m cable)<br>6GT2 90-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>12-pin M16/F (reader connector) <sup>2</sup><br>20-pin S7-300 (CM connector) | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>12-pin M16/F (reader connector) <sup>2</sup><br>6GT2 490-1AA00 (PC connector) | 6XV1 840-2AH10 (>20 m)<br>6GK1 901-0DB20-6AA0 (4-pin M12 d coded, reader connector)<br>6GK1901-1BB10-2AA0 (RJ45, network connector)   | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>12-pin M16/F (reader connector) <sup>2</sup><br>6GT2090-0BE00 (CM connector) | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>12-pin M16/F (reader connector) <sup>2</sup><br>6GT2090-0BE00 (CM connector) |
| <b>MV440</b>         | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>6GT2090-0BE00 (CM connector)             | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>9-pin submin-D/M (CM connector) <sup>1</sup>             | 6GT2 090-4AN50 (50 m cable)<br>6GT2 90-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>20-pin S7-300 (CM connector)             | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>12-pin M16/F (reader connector) <sup>2</sup><br>6GT2 490-1AA00 (PC connector) | 6XV1 840-2AH10 (>20 m)<br>6GK1 901-0DB20-6AA0 (4-pin M12 d coded, reader connector)<br>6GK1901-1BB10-2AA0 (RJ45, network connector)   | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>6GT2090-0BE00 (CM connector)             | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>6GT2090-0BE00 (CM connector)             |
| <b>MV500</b>         | Always use reader-side assembled cables:<br>10 m = 6GF3 500-8BA21<br>30 m = 6GF3 500-8BA41<br>6GT2090-0BE00 (CM connector)  | Always use reader-side assembled cables:<br>10 m = 6GF3 500-8BA21<br>30 m = 6GF3 500-8BA41<br>9-pin submin-D/M (CM connector) <sup>1</sup>  | Always use reader-side assembled cables:<br>10 m = 6GF3 500-8BA21<br>30 m = 6GF3 500-8BA41<br>20-pin S7-300 (CM connector)   | Always use reader-side assembled cables:<br>10 m = 6GF3 500-8BA21<br>30 m = 6GF3 500-8BA41<br>6GT2 490-1AA00 (PC connector)  | Always use reader-side assembled cables with 90° angled connector<br><b>100 MB:</b><br>6XV1 870-8xxx (0.3 to 15 m)<br>6GK1 901-1BB10-2AA0 (RJ45, 2x2)<br>6GK1 901-0DB20-6AA0 (M12, 2x2)<br><b>1000 MB:</b><br>6XV1 878-5Gxxx (0.3 to 15 m)<br>6GK1 901-1BB12-2AA0 (RJ45, 4x2)<br>6GK1 901-0DB30-6AA0 (M12, 4x2)<br>The connectors (M12, RJ45) can be assembled after cutting one connector of an existing cable | Always use reader-side assembled cables:<br>10 m = 6GF3 500-8BA21<br>30 m = 6GF3 500-8BA41<br>6GT2090-0BE00 (CM connector)  | Always use reader-side assembled cables:<br>10 m = 6GF3 500-8BA21<br>30 m = 6GF3 500-8BA41<br>6GT2090-0BE00 (CM connector)  |

## Power & Control-side Networking Components

|                               | RF166C                                     | RF120C                       | ASM 475   | RS232 to PC                  | RF185C, RF186C/CI, RF188C/CI               | RF360R                                     | RF600  | MV420, MV440  | MV500  |
|-------------------------------|--|------------------------------|---|------------------------------|--|--|--|---|--|
| <b>Cable &amp; Connectors</b> | See RF166C Bill of Materials Guide Page 77 | Direct with S7-1200 assembly | Direct in S7-300 rack or in ET 200M rack using IM153-2 Module | See individual readers above | See RF18xC bill of materials guide page 75 | See RF360R bill of materials guide page 78 | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>6GT2090-0BD00 (reader connector)<br>6GK1907-0DB10-6AA3 (power supply) | 6GT2 090-4AN50 (50 m cable)<br>6GT2 090-4AT12 (120 m cable)<br>6GT2 090-4AT80 (800 m cable)<br>12-pin M16/F (reader connector) <sup>2</sup> | Always use reader-side assembled cables (M12, 12pin) and power-side open ends:<br>10 m = 6GF3 500-8BA21<br>30 m = 6GF3 500-8BA41 |

Notes:

- Order via distributor for electronic components
- Binder M16 male & female connectors for making custom interface cables.. They almost have screw terminals inside of them for wire connections, so they're easy to build in the field. The contact info is:

Binder-USA – LP offices and warehouse  
3903 Calle Tecate, Camarillo, CA93012  
PHONE: (805) 437-9925  
EMAIL: <mailto:sales@binder-usa.com>  
Web site <http://www.binder-usa.com>

Binder Europa  
Rötelstrasse 27 74172 Neckarsulm  
PHONE: ++49 (0) 71 32 - 325-0  
EMAIL: [vk@binder-connector.de](mailto:vk@binder-connector.de)  
Web site: <http://www.binder-connector.de>

Binder Asia  
南京江宁开发区诚信大道88号, 7号楼  
PHONE: 025-83328591  
EMAIL: <mailto:binderj@binder-connector.cn>  
Web site:<http://www.binder-connector.cn>

**Binder Order example for MV420**  
M16 cable connector 12-pin, female wire solder: 99 5630 00 12

This is the last Ident guide prepared by



(heinrich.meyer)