

Ewon[®] Edge family
INSTALLATION GUIDE

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1. Preface

1.1. About This Document

The present Installation Guide describes the hardware of the Ewon® Edge family which is an IIOT gateway fully compatible with the [Ewon Cloud connectivity services](#).

For additional related documentation and file downloads, please visit <https://support.hms-networks.com/hc/en-us>.

1.2. Document History

Version	Date	Description
0.1	25-04-2024	First draft
0.2	11-07-2024	Second draft
0.3	22-01-2025	Improving technical images
0.4	19-06-2025	Adding new devices images Improving LED Patterns chapter by adding the detailed LED behaviors
0.5	24-10-2025	Adding Ewon Edge WiFi Technical Specifications
0.6	11/06/2026	• Modifying Chapter 3.3 • Adding Ewon Edge 300 & Ewon Edge 400 series specifications
0.7	16/06/2026	Modifying Chapter 3.3: adding compliance information

1.3. Related Documents

Document	Author	Document ID
None	HMS	-

1.4. Trademark Information

Ewon® is a registered trademark of HMS Networks SA. All other trademarks mentioned in this document are the property of their respective holders.

2. Product Summary

2.1. Type & Part Numbers

There are several models of the Ewon® Edge proposing different communication media.

They include the following part numbers:

Part number	Model Number	Model name	Description
EE310	01003	Ewon® Edge Ethernet	LAN / WAN – 4 Ethernet ports
EE320	02003	Ewon® Edge WiFi	LAN / WAN, Wi-Fi – 4 Ethernet ports, WiFi Modem (802.11 a/b/g/n/ac)
EE410	01003	Ewon® Edge Ethernet	LAN / WAN – 4 Ethernet ports
EE420	02003	Ewon® Edge WiFi	LAN / WAN, Wi-Fi – 4 Ethernet ports, WiFi Modem (802.11 a/b/g/n/ac)

The part number syntax is explained in the [Label \(page 8\)](#) section.

Technical specification and certification by model can be found in the Ewon® Edge datasheet.

2.2. Hardware General Specification

Characteristic	Value
Design	Industrial design: • 12-24 Vdc power supply • DIN Rail mounting • Extended temperature: -25°C to +60°C
Ethernet Interface	Ethernet 4 ports 10 / 100 Mbps / 1000 Mbps
Isolated Digital Input	2
Isolated Digital Output	1
Mounting	Latch is DIN Rail EN50022 compliant.

2.3. Typical Applications for Ewon® Edge

You can use the Ewon® Edge for :

- Remotely access Ethernet devices via the Ewon cloud infrastructure.
- Collect PLC data using Modbus, IOSTCP, or EthIP protocols and send data to AWS or Azure cloud platforms through embedded MQTT connector.



IMPORTANT

The Ewon® Edge should not be used as a pure Ethernet switch as short interruptions of the switch interface need to be taken into consideration.

For example, after firmware update, service patch application, application watchdogs, etc... .

3. Safety, Environmental & Regulatory Information

3.1. Scope

This chapter addresses safety, environmental and regulatory information for the Ewon® Edge.

3.2. Power Supply

The external power supply is a third-party device that is not part of this certification.

- EUT should be supplied from an external, separately provided power supply 12-24Vdc, 30W min., certified for 60°C and for altitudes up to 2000m.
- Power supply should be separately certified according to UL/IEC 62368-1 with ES1, PS2 output.

For more information, refer to [Specification of the External Power Supply](#) section.

3.3. Applicable Directives, Standards and Compliance

The Ewon® Edge described in the present document complies with the CE and the FCC regulations. Other certifications might be added.

The Ewon® Edge's radio variants comply with EU Radio Equipment Directive 2014/53/EU.

You can refer to the [Ewon Technical Support Website](#) for all documents related to certifications such as CE Declaration of Conformity, FCC Declaration of Conformity, UL/CB Certificates and EU Type Examination Certificate.

The Ewon® Edge is an industrial (Class A) electromagnetic compatibility device, and use in office or residential environments may have adverse effects on the human body and nearby equipment due to electromagnetic exposure.

3.4. Field Implementation & Environmental Conditions

3.4.1. General Restriction

This equipment is not suitable for use in locations where children are likely to be present.

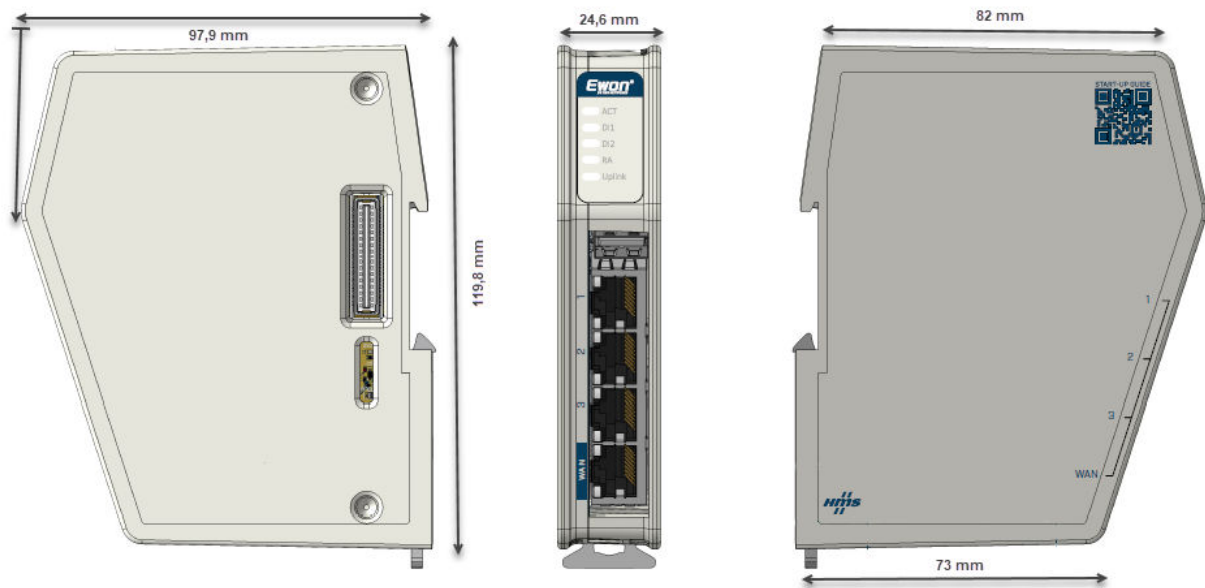
3.4.2. Ingress Protection

The Ewon® Edge has an IP20 protection grade. Therefore, the Ewon® Edge is **NOT** suitable for outdoor mounting. It must be integrated in an electrical cabinet, protected from excessive heat, humidity and dust.

Do not push any sharp object into the air vents or openings of the equipment.

3.4.3. Mechanical Dimensions

All units are expressed in millimeters "*mm*" and are rounded up.



- Net Width = 24,6 mm
- Net Height = 119,8 mm
- Net Depth = 97,9 mm
- Upper Depth = 82 mm
- Bottom Depth = 73 mm

Figure 1. Mechanical dimensions of the Ewon® Edge

3.4.4. Mounting Recommendations

The product is intended to be mounted vertically with the main connector at the bottom.

The normal mounting position of the Ewon® Edge is to be mounted on a horizontal Omega type DIN rail.

1. **Mounting the unit on DIN-rail [Omega type DIN-rail (EN 50022)]**
Present the unit in front of the DIN rail. Tilt the Ewon® Edge upwards in order to hang it on the upper edge of the DIN rail by its hook. Gently tilt the unit downwards until it finds its original position to lock the unit on the DIN rail.
2. **Removing the unit from DIN-rail [Omega type DIN-rail (EN 50022)]**
Release the unit by pulling the rail slide lock downwards while gently tilting the unit upwards. Free the unit by unhooking it from the upper rail edge.



#	Description
1	Rail slide lock
2	DIN rail mounting bracket

Figure 2. DIN Rail Mounting Position

3.4.5. Ventilation

To ensure a proper ventilation of the equipment, a free gap of at least 2 cm must be respected in front of all upper and lower ventilation openings of the unit. A free gap of at least 1 cm must be respected on each side of the unit.

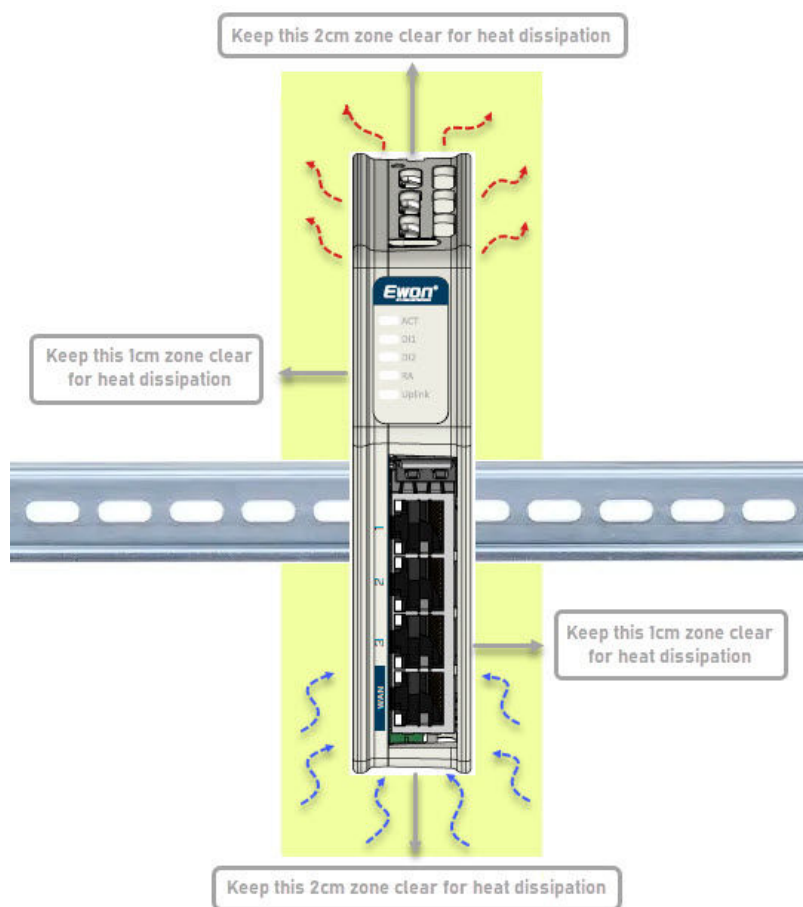


Figure 3. Free gap surrounding the Ewon® Edge for heat dissipation.

3.4.6. Cabling Rules

Shielded cables must be used for the Ethernet connectivity of the Ewon® Edge to comply with the EMC requirements.



CAUTION

To prevent accidentally pulling out wires, make sure the cables are firmly attached to wire connectors.

For screw connectors, make sure that screws are properly tightened as well as routing the equipment wires separately from other high voltage wires.

3.4.7. Environmental Conditions

The equipment operates properly within the following environmental limits if it has been correctly mounted according to our recommendations:

Table 1. Environmental conditions

Operating temperature	-25°C to +60°C
Operating relative humidity	10 to 95% non-condensing
Operating altitude	Up to maximum 2000m
Storage temperature	-30°C to +70°C
Storage altitude	Up to maximum 3000m
Storage humidity	10 to 95% non-condensing

**IMPORTANT**

If the mounting recommendations mentioned is not applied, the specified operating temperature must be derated to -25°C to +40°C.

3.4.8. Earthing

Earthing the Ewon® Edge is necessary to eliminate unwanted transient currents and to conform to the EMC requirements.

Therefore, a functional earth (FE) terminal is available on the main connector as shown in [Specification of the External Power Supply section \(page 20\)](#). Connect this FE terminal directly to allow impedance ground.

Shielded cables must be used for Ethernet and USB to comply with the EMC requirements.

3.5. Internal Battery

The Ewon® Edge does not contain a battery, but clock information is maintained during 8 hours in case of electricity interruption.

4. Hardware Description

4.1. Label

The identification label of the Ewon® Edge is placed on the left hand side of the housing.

The different parts of the label are described as follows:

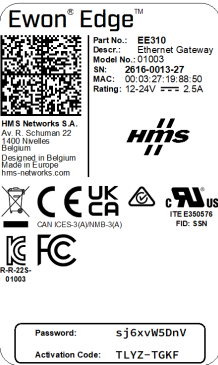


Figure 4. Ewon® Edge Label Example:

The label can have variant marks depending on the model of the Ewon® Edge.

Table 2. Label of an Ewon® Edge

Label	Description
Part No.	Part Number (see syntax table below)
Model No.	Model number (ex: Model 12345)
Serial No.	Serial Number in the form of YYWW-SSSS-PP YY: Year of production WW: Week of production SSSS: Sequential manufacturing order PP: Product type. <i>Example: 27 = EE310</i>
MAC	MAC address of the Ethernet adapter (WAN side)
Rating	Power supply requirements
Marks	CE, UL, ... logos if applicable

Depending on your model of Ewon® Edge, the label may include the following marks:

Marks	Description
	Conformité Européenne or European Conformity (EC)
	UL Recognized — Underwriters Laboratories
	FCC — Federal Communications Commission
	UKCA — UK Conformity Assessed
	JAPAN MIC — GITEKI CERTIFICATION

The following table explains the Part Number syntax:

Table 3. Example of a part number syntax with EDGE-xyz[suffix]

EDGE	Name of product family	Ewon® Edge	
x	Variant	For future use	<i>May be empty</i>
y	Model	1	4 ports Ethernet switch
		2	4 ports Ethernet switch & build in WiFi
z	Hardware revision	0	Hardware revision incremented when needed
[suffix]	Optional		

4.2. Overall Description

4.2.1. Hardware Interface Description

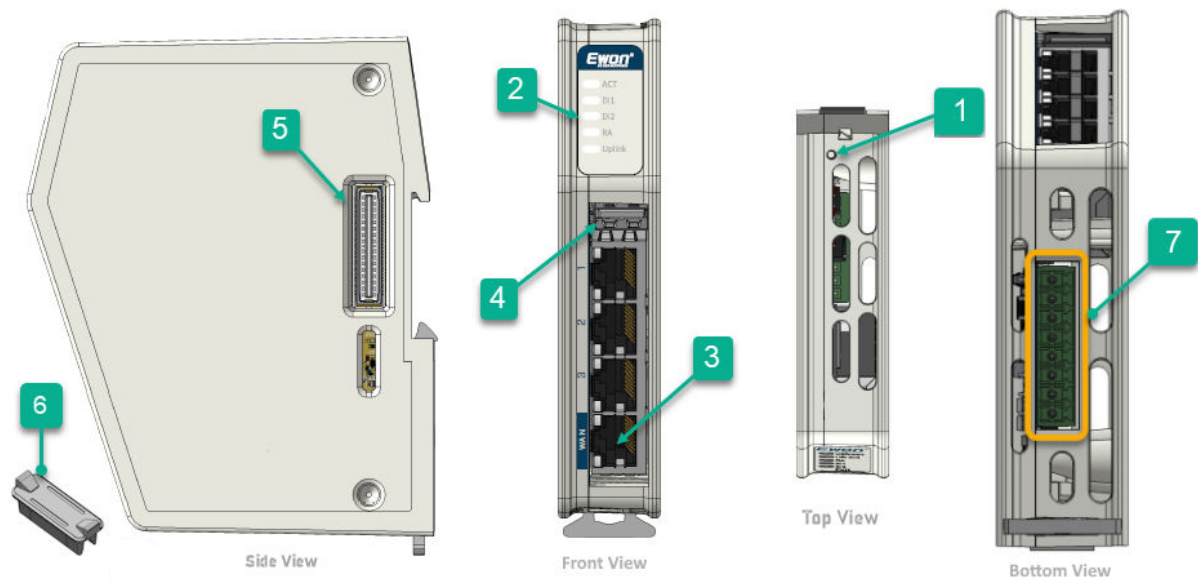


Figure 5. Interface of the Ewon® Edge

Table 4. Description of the front panel

#	Description
1	Reset button
2	Status LEDs
3	LAN/WAN Ethernet ports and corresponding status LEDs: • Blinking Green: Activity on ETH port • The WAN port is marked on the left side of the port itself, located on the front side of the switch for easy identification
4	USB slot
5	Board to board connector (for future use)
6	Board to board protection
7	Main connector <i>For more information about the connector, refer to Main Connector (page 20) section.</i>

4.2.2. Connector on the bottom Side

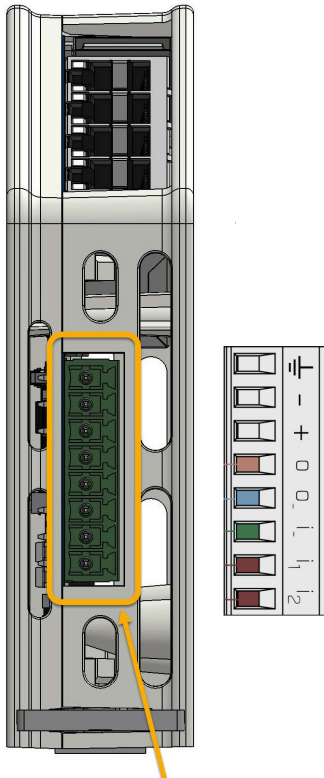


Figure 6. Main connector of the Ewon® Edge

4.2.3. LED Indicators



Table 5. LED Indicators and description - All versions

Label	Description	Purpose
ACT	Activity	Indicates the device status, such as running, booting, detecting USB configuration files, resetting, etc.
DI1	Digital Input 1	Monitors the state of Digital Input 1 if the feature is enabled in the device configuration. Available feature: • Control Remote Access
DI2	Digital Input 2	Monitors the state of Digital Input 2 if the feature is enabled in the device configuration. No features are currently supported (reserved for future use).
RA	Remote Access	Monitors the status of remote access if the Remote Access Control feature is enabled in the device configuration.
UPLINK	Uplink connection	Monitors the status of the connection to Ewon Cloud services.

LED Patterns

Ewon Edge
Device LEDs

Confidential



***ACT LED is solid green**
Normal boot. ACT LED is steady green from the start of the boot process.



ACT LED blinking green
RA LED blinking green
UPLINK LED is solid green
Remote Access (VPN) is established on the device. User connected.



ACT LED is blinking red
Reset operation detected. The reset button can now be released. The device will reset and restart automatically.



ACT LED blinking green
UPLINK LED is off
The device cannot reach Ewon Cloud services. Check WAN port / cable / firewall / network settings



ACT LED blinking green
DI1 is solid green
UPLINK LED is solid green
Device is up and running and Digital Input 1 state allows remote access.



***ACT LED is solid red**
Firmware update in progress. Do not power off the device. The device will return to normal operation after reboot.



ACT LED blinking green
UPLINK LED solid green
Device is up and running and can communicate with Ewon Cloud services



ACT LED is blinking orange
USB drive detected. The device is checking for configuration files.



***All LEDs are solid red**
Boot error. Contact HMS.

*New

Table 6. LED Patterns

LED	Status	Meaning
ACT	OFF	Device is not powered on or just started its booting process.
	Green (blinking)	Device is up and running.
	Orange (blinking)	USB drive detected. The device is checking for configuration files.
	Green (solid)	- USB configuration files detected and validated. The USB drive can now be removed to apply the configuration. - During the booting process, the LED will remain solid green before transitioning to blinking green once the device is up and running.
	Orange (solid)	USB configuration files detected and validated. A reboot is required to apply the files. The USB key can now be removed to proceed with the configuration and reboot.
	Red (solid)	- USB key detected, but configuration files are missing or invalid. The USB key can now be removed to continue normal device behavior. - Firmware update in progress. Do not power off the device. The device will return to normal operation after reboot.
	Red (blinking)	Reset operation detected. The reset button can now be released. The device will reset and restart automatically.
DI1	OFF	Remote Access Control feature is not enabled on the device. DI state is not taken into account.
	Orange (solid)	Digital Input state blocks remote access.
	OFF	Digital Input state allows remote access.
DI2	OFF	No features currently supported (reserved for future use).
RA	OFF	No Remote Access through the Ewon cloud.
	Green (blinking)	Remote Access is established on the device. User connected.
Uplink	OFF	The device cannot reach Ewon Cloud services.
	Green (solid)	The device can communicate with Ewon Cloud services.

4.3. LAN Switch Specifications

4.3.1. Boot Process

After powering on or requesting a reboot of the Ewon® Edge, a delay up to 1 minute can be required before the LAN switch feature becomes fully operational.



IMPORTANT

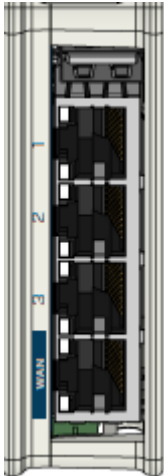
The Ewon® Edge should **not** be used as a pure Ethernet switch as short interruptions of the switch interface need to be taken into consideration. For example after firmware update, service patch application, application watchdogs, etc... .

4.3.2. Reset Procedure of the Ewon Edge

1. Ensure the device is powered off.
2. Press and hold the reset button (located on the upper side of the device).
3. Power on the device while keeping the reset button pressed.
A green LED next to the reset button will light up, indicating the button is correctly pressed.
4. Continue holding the reset button until the DI1 and DI2 LEDs start blinking red.
5. Release the reset button.
 - The **DI1 and DI2 LEDs** will stop blinking red and turn solid red.
6. Wait for the device to complete the reset and reboot process.
7. Once the **ACT LED** starts blinking green, the reset operation is complete, device has rebooted, and the device is ready for use.

4.3.3. LAN Switch Configuration

The Ethernet port attribution is configured as follows:



- Port #1 : LAN
- Port #2 : LAN
- Port #3 : LAN
- Port #4: WAN

**TIP**

Port #4 is grey labeled as **WAN** on the left side of the port itself.

5. Ewon Edge Models

5.1. Ewon Edge Ethernet 310 - EE310

- Order Code: EE310
- Model Number: 01003

5.1.1. Technical Specifications - EE310

Specifications	Details
Wan Connectivity	Ethernet
Type tests	Temperature - Operating & Storage tested according to: • IEC 60068-2-1 Cold test • IEC 60068-2-2 Dry heat test • IEC 60068-2-14 Change of temperature • IEC 60068-2-30 Cyclic damp heat test Vibration & shocks tested according to: • IEC 60068-2-27 Bumps • IEC 60068-2-64 Vibration (broad-band random) • IEC 60068-2-6 Vibration (sinusoidal)
CE	Compliant with: • EMC directive 2014/30/EU (Immunity: industrial level)
UKCA	Compliant with: • EE310: Electromagnetic Compatibility Regulations 2016; The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.
FCC/IC	This product complies with the Part 15 of the FCC rules.
Japan	This device complies with Japanese regulations.
Other	South Korea KC, RCM for Australia and New Zealand.
Safety	The product fulfils the requirement of: • EN IEC 62368-1:2020 + A11:2020 • UL 62368-1 Third Edition, revised October 22, 2021 • CAN/CSA C22.2 No. 62368-1: 19 Third Edition, revised October 22, 2021 J62368-1(2023)

5.2. Ewon Edge Ethernet 410 - EE410

- Order Code: EE410
- Model Number: 01003

5.2.1. Technical Specifications - EE410

Specifications	Details
Wan Connectivity	Ethernet
Type tests	Temperature - Operating & Storage tested according to: • IEC 60068-2-1 Cold test • IEC 60068-2-2 Dry heat test • IEC 60068-2-14 Change of temperature • IEC 60068-2-30 Cyclic damp heat test Vibration & shocks tested according to: • IEC 60068-2-27 Bumps • IEC 60068-2-64 Vibration (broad-band random) • IEC 60068-2-6 Vibration (sinusoidal)
CE	Compliant with: • EMC directive 2014/30/EU (Immunity: industrial level)
UKCA	Compliant with: • EE410: Electromagnetic Compatibility Regulations 2016; The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.
FCC/IC	This product complies with the Part 15 of the FCC rules.
Japan	This device complies with Japanese regulations.
Other	South Korea KC, RCM for Australia and New Zealand.
Safety	The product fulfils the requirement of: • EN IEC 62368-1:2020 + A11:2020 • UL 62368-1 Third Edition, revised October 22, 2021 • CAN/CSA C22.2 No. 62368-1: 19 Third Edition, revised October 22, 2021 J62368-1(2023)

5.3. Ewon Edge WiFi 320 - EE320

- Orde Code: EE320
- Model Number: 02003

5.3.1. Technical Specifications - EE320

Specifications	Details
Wan Connectivity	Ethernet or WiFi: 802.11 a/b/g/n/ac WiFi/WLAN client and access point (remote connection).
Security	WEP, WPA, WPA2 Personal; WPA2 Enterprise; WPA3 Personal; WPA3 Enterprise
Antenna Connector	Reverse SMA male connector
Antenna	Included in the delivery. Frequency 2.4GHz/5GHz, impedance 50 ohm, gain 2.0dB
Type tests	Temperature - Operating & Storage tested according to: • IEC 60068-2-1 Cold test • IEC 60068-2-2 Dry heat test • IEC 60068-2-14 Change of temperature • IEC 60068-2-30 Cyclic damp heat test Vibration & shocks tested according to: • IEC 60068-2-27 Bumps • IEC 60068-2-64 Vibration (broad-band random) • IEC 60068-2-6 Vibration (sinusoidal)
CE	Compliant with: • Radio Equipment Directive 2014/53/EU • ROHS2 2011/65/EU directive with amendment 2015/863 REACH regulation
UKCA	Compliant with: • Radio Equipment Regulations 2017 The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.
FCC/IC	This product complies with the Part 15 of the FCC rules.
Japan	This device complies with Japanese regulations.
Other	Certification in process
Safety	The product fulfils the requirement of: • EN IEC 62368-1:2020 + A11:2020 • UL 62368-1 Third Edition, revised October 22, 2021 • CAN/CSA C22.2 No. 62368-1: 19 Third Edition, revised October 22, 2021 J62368-1(2023)

5.4. Ewon Edge WiFi 420 - EE420

- Orde Code: EE420
- Model Number: 02003

5.4.1. Technical Specifications - EE420

Specifications	Details
Wan Connectivity	Ethernet or WiFi: 802.11 a/b/g/n/ac WiFi/WLAN client and access point (remote connection).
Security	WEP, WPA, WPA2 Personal; WPA2 Enterprise; WPA3 Personal; WPA3 Enterprise
Antenna Connector	Reverse SMA male connector
Antenna	Included in the delivery. Frequency 2.4GHz/5GHz, impedance 50 ohm, gain 2.0dB
Type tests	Temperature - Operating & Storage tested according to: • IEC 60068-2-1 Cold test • IEC 60068-2-2 Dry heat test • IEC 60068-2-14 Change of temperature • IEC 60068-2-30 Cyclic damp heat test Vibration & shocks tested according to: • IEC 60068-2-27 Bumps • IEC 60068-2-64 Vibration (broad-band random) • IEC 60068-2-6 Vibration (sinusoidal)
CE	Compliant with: • Radio Equipment Directive 2014/53/EU • ROHS2 2011/65/EU directive with amendment 2015/863 REACH regulation
UKCA	Compliant with: • Radio Equipment Regulations 2017 The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012.
FCC/IC	This product complies with the Part 15 of the FCC rules.
Japan	This device complies with Japanese regulations.
Other	Certification in process
Safety	The product fulfils the requirement of: • EN IEC 62368-1:2020 + A11:2020 • UL 62368-1 Third Edition, revised October 22, 2021 • CAN/CSA C22.2 No. 62368-1: 19 Third Edition, revised October 22, 2021 J62368-1(2023)

Appendix A. Ewon® Edge Installation Guide Appendix

1. Main Connector

As shown in the image below, the **female mating connector** is labelled with the appropriate symbols.

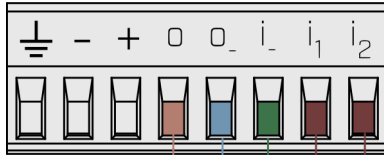


Figure A.1. The Ewon® Edge Female connector

Table A.1. Labels on main connector

PIN	Icon	ID	Description
1		Functional earth	
2	-	Power in GND-	0V
3	+	Power in VDD+	Between +12 and +24Vdc
4	O	DO	Dry contact relay
5	O-	DO-	Dry contact relay
6	I-	DI_COM	Ground of the input (isolated)
7	I ₁	DI1	Input signal 1
8	I ₂	DI2	Input signal 2

Table A.2. Characteristics of main connector

Characteristic	Value
Connector type	MINICONNEC MC model Type MC 1.5 / 8-ST-3.5 Pitch = 3.50mm 8-pin female
Maximal tightening torque	0.25Nm In the absence of a torque wrench, a soft manual tightening is sufficient.

2. Specification of the External Power Supply

- EUT should be supplied from an external, separately provided power supply 12-24Vdc, 30W min., certified for 60°C and for altitudes up to 2000m.
- Power supply should be separately certified according to UL/IEC 62368-1 with ES1, PS2 output.

Table A.3. Characteristics of the power supply

Characteristic	Value
Power supply voltage	External 12-24Vdc +/- 20%
Maximum Ewon® Edge input power	30W maximum
Internal voltage protection	30V maximum
Input protection	Protected against polarity inversion

3. Digital Output & Digital Inputs

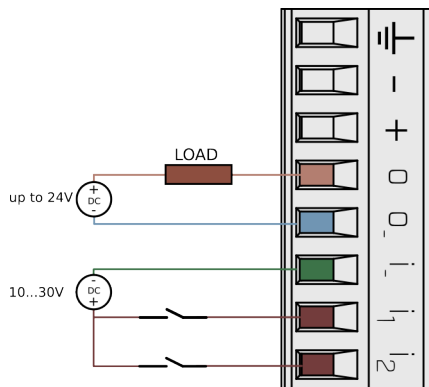


Figure A.2. Current scheme of the main connector

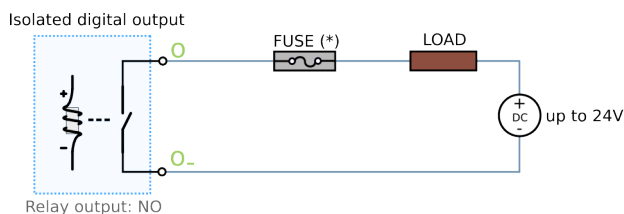
Table A.4. Main connector characteristics

Characteristic	Value
Type of digital output	Dry Contact Relay
Maximum current (external source)	500 mA
Isolation (both DI & DO)	1.5 Vdc
Voltage range (both DI & DO)	0 to 30 Vdc
DI protection	33 Vdc maximum
DI OFF state - Input voltage range	0 to 5 Vdc
DI ON state - Input voltage range	10 to 30 Vdc
DI ON state - Current range	0 to 3 mA

The Digital Output is based on a dry contact relay which acts as a simple switch. The maximum current flow inside this relay has a value above the one specified in the Ewon® Edge, in order to cope with the switching power losses.

The diagram below shows the external wiring needed for proper operation of the digital output.

A supplied load has been chosen for this sample application but any load within the specifications can be used instead.



(*) The FUSE is not necessary if the current is limited to 500mA via the load and cannot fail in short-mode

Figure A.3. External wiring of the Digital Output

3.1. Possible Features of the DI & DO

Wiring the Digital Input and Digital Output allows you to externalize some features (such as connectivity conditions), as described below:

Table A.5. Features linked to DO & DI

LED	Description	Linked LED
DI1 (Digital Input 1)	If enabled in the device configuration, this input can control remote access. It can be configured to allow remote access only in the On or Off state.	DI1 The LED is firmware driven. If the DI1 feature is enabled inside the device, then: • Green (solid): Digital Input state allows remote access • Orange (solid): Digital Input state blocks remote access
DI2 (Digital Input 2)	No actions are currently supported. Reserved for future use.	DI2 The LED is firmware-driven and currently shows no status.
DO (Digital Output)	If enabled in the device configuration, the output reflects the device's VPN status. It can indicate the remote access state using an open or closed relay.	RA The LED is firmware driven. If the Remote access control feature is enabled inside the device, then: • Green (blinking): Remote access ongoing • Green (off): No remote access

The configuration of these conditions is done through the Ewon Cloud.