

Industrial Gateway Datasheet



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1. Product models

Model ID	Product name	ETH	WLAN	PoE	4G/LTE
* GW-IND-02	Industrial Gateway with Ethernet, WLAN and 4G LTE connection	✓	✓	optional	✓

1.1. Key features

- High reliability
- Extended temperature range
- Li-ion battery backup option
- Redundant network connections: Ethernet + WLAN + Integrated 4G LTE

1.2. Ready for IQRf DPA messages

- Transparent IQRf DPA messages
- Compatible with all IQRf Alliance interoperable end devices

2. Specifications



Computing		GW-IND-02	GW-IND-02-WA
Processor		Cortex-A7 up to @ 650 MHz	
Memory		512MB DDR3L	
Storage		4GB eMMC Flash	
OS		Linux 6.6 Yocto	
External Antenna		LTE, RFNET	LTE, WLAN, RFNET
Communication interfaces			
Ethernet		10/100Mbps	
WLAN		IEEE 802.11 b/g/n/ax (WiFi 6, 1×1, 20 MHz) + Bluetooth Low Energy 5	
	Frequency band	2.4 GHz WLAN (2.412 – 2.4835 GHz) BLE (2.402 – 2.480 GHz)	
	Channels	1 – 13 (ETSI / Europe)	
	TX output power	WLAN: up to +20 dBm · BLE: up to +20 dBm	
	RX sensitivity	WLAN: down to –97 dBm (typ.) BLE 1 Mbps: down to –97 dBm (typ.)	
	Security	WPA / WPA2 / WPA3 Personal, WPA2-Enterprise (EAP)	
	Operating modes	Station (STA), Soft-AP	
	Antenna	External, SMA connector	
	Regulatory	CE / RED 2014/53/EU, RoHS	

WWAN 4G-LTE	2G/3G/4G/LTE Support
LTE FDD	B1/B3/B5/B7/B8/B20
LTE TDD	B38/B40/B41
WCDMA	B1/B5/B8
SIM	Micro SIM
USB	1x USB-C
Field bus	Modbus-RTU
RF Specification	
WSN connectivity	IQRF - DPA
Communication module	DCTR-76DA
IQRF-OS version	4.02D
IQRF-DPA version	4.11
Default IQRF channel	52 (868.35 MHz)
RF mode	Low Power / STD
RF band	868 MHz (916 MHz on special request)
RF output power	10 mW
Antenna	External
Onboard features	
RTCC	Supercap supply
External watchdog	Yes
Onboard temperature sensor	0.2°C accuracy
Onboard voltage monitoring	Yes
Local state feedback	
RF feedback	Led (RX/TX)
Gateway activity	LED (STAT/ACT)
Online status	LED

Environmental conditions

Operation temperature	-20 °C to +70 °C
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Storage temperature	-20 °C to +70 °C
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Relative humidity	0 % to 85 %
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Electrical specification

Input power supply / Input voltage	- DC 9V-24V (power supply not included) - Power over Ethernet (optional)
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Power consumption	Typ.: 1.5W, max.: 2.5 W
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Mechanical and enclosure specification

Product dimension (outline)	105mm(W) x 55mm(H) x 86mm(D)
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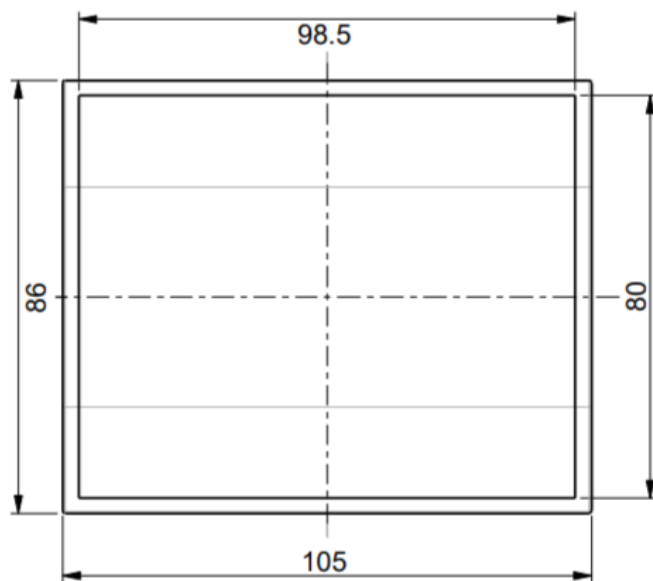
Mount type	DIN Rail mountable
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Product weight	180 g
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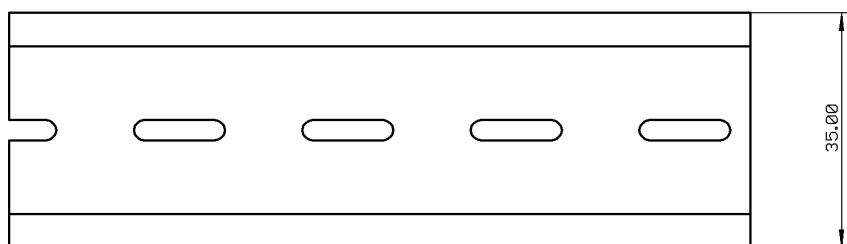
Enclosure colour	Gray
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Enclosure protection level	IP20
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3. Dimensions



(Unit: mm , tolerance $\pm 0.5\text{mm}$)



ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15

4. For your safety

To prevent damage to your product or injury to yourself or to others, read the following safety precautions before using this equipment. Keep these safety instructions where all those who use the product will read them.

4.1. WARNINGS

- **Turn off immediately in the event of malfunction**
Should you notice smoke or an unusual smell coming from the equipment, power off the equipment and remove the battery immediately, taking care to avoid burns. Continued operation could result in injury.
- **Do not use in the presence of flammable gas**
Do not use electronic equipment in the presence of flammable gas, as this could result in explosion or fire.
- **Keep out of reach of children**
Failure to observe this precaution could result in injury.
- **Use only with the additional battery extension pack**

4.2. Notices

- This manual included with the product may not be reproduced, translated to any language or used to any other purpose without IQ Home's written permission.
- IQ Home reserves the right to change specifications described in this manual at any time without prior notice.
- IQ Home will not be held liable for any damages resulted from the use of this product.
- We made as much effort as we could while prepared this manual to make it useful, accurate and complete. If we made mistakes, we appreciate if you contact us and let us know.

This symbol indicates that this product is to be collected separately.



- This product is designated for separate collection at an appropriate collection point. Do not dispose of as household waste.
- For more information, contact the retailer or the local authorities in charge of waste management.

This symbol on the battery indicates that the battery is to be collected separately.



- All batteries whether marked with this symbol or not, are designated for separate collection at an appropriate collection point.
- Do not dispose of as household waste. For more information, contact the retailer or the local authorities in charge of waste management.

5. Contact Us

SensNet Kft.
Address: 1139 Budapest, Tahi utca 30. 2. em. 4., Hungary
Email: info@sensnet.tech
Website: sensnet.tech