Sentrius™ RG186-IP67/LTE
LoRa-Enabled Gateway + Wi-Fi / Ethernet / LTE

m2m®
your wireless competence

The Sentrius™ RG1xx LoRa-Enabled Gateways from Laird are the ultimate in secure, scalable, robust LoRa solutions. Gather data over LoRaWAN and send it as far as 10 miles via LoRaWAN, or over Wi-Fi / Ethernet to the cloud. The RG1xx gives you full ownership over your network, adding multi-protocol connectivity to your sensors and devices to create actionable IoT intelligence.

RG186 IP67/LTE Version

The **IP67/LTE version** by m2m Germany GmbH provides additional features:

- LTE Cat-4 cellular modem integration

- LTE configuration through web server interface

- Integration of customer specific Linux applications (e.g. VPN tunnel, security layer binaries, other LoRa client apps for server communikation, etc.)

- Full ssh/root access (on request)
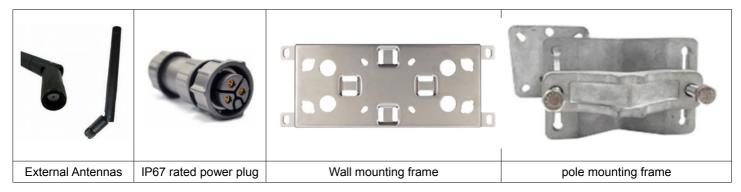
- Setup support by m2m Germany GmbH

Hardware

Reference	Description
1	LoRa, WiFi and LTE antennas
2	Power supply connector
3	Ethernet connector
4	Enclosure plastic cover
5	Metal cover plug (2) - available ports for expansion
6	Power supply connector
7	Six LED display with transparent dust cover
8	Three LED display and user button with transparent cover
9	CAT6 ethernet connector
10	Plastic gore ventilation plug

Accessories

| External Antennas | IP67 rated power plug | Wall mounting frame | pole mounting frame |

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Specifications

Category	Feature	Specification
Chipset	LoRa®	Semtech SX1301/1257
	Bluetooth®*	Cambridge Silicon Radio CSR8811 A08
	Wi-Fi	Qualcomm Atheros QCA6004
	LTE	**Huawei ME906s-158 LTECat-4** (Hisilicon Balong V711)
Wireless Characteristics	Wi-Fi Spatial Streams	2x2 MIMO
	Wi-Fi Frequencies	2.4 and 5GHz Operation
	LoRa Frequencies	863 – 870 MHz (EU), 902 – 928 MHz (US)
	LTE Bands	LTE (FDD) B1/B2/B3/B5/B7/B8/B20/B28 DC-HSPA+/HSPA+/HSPA/WCDMA B1/B2/B5/B8 EDGE/GPRS/GSM 1900/1800/900/850 MHz
Interfaces	Wired	Ethernet - RJ45 Connector
	Wireless	LoRaWAN, Wi-Fi 2.4 / 5GHz, Bluetooth* v4.0 (BLE and Classic)
Power	Supply Voltage	12V / 1A, IP67 rated connector included
Security	Wi-Fi	Standards - WEP, WPA, WPA2. Encryption – WEP, TKIP, AES EAP Types - EAP-FAST, EAP-TLS, EAP-TTLS, PEAP-GTC, PEAP-MSCHAP, PEAP, MSCHAPv2, PEAP-TLS, LEAP
Software	Operating System	Embedded Linux, 4.x Kernel
	LoRa	Packet Network Forwarder, Default support for The Things Network, Stream Communications, Loriot
	Configuration	Web-based interface via Ethernet / Wi-Fi
Physical	Dimensions	250 x 240 x 70 mm (enclosure only)
Environmental	Operating Temp.	-30° to +70°C
Regulatory	Approvals	CE/RED
Accessories	Included	One 868 MHz or 915 MHz antenna, two 2.4 /5 GHz antennas, IP67 rated power connector, Ethernet cable, LTE Antenna
Enclosure	IP67 Enclosure	IP67-rated external enclosure housing for main gateway PCB
Warranty		1-Year Warranty

* Bluetooth and Bluetooth Low Energy functionality in the gateway is not enabled (more information on request).

Ordering Informations

Part Number	Description
RG186-IP67/LTE	Intelligent LoRaWAN 868MHz Gateway including Wi-Fi, BT, Ethernet and LTE – EU Version

Contact Information

Sales m2m Germany GmbH, +49 6081 5873680, sales@m2mgermany.de

https://www.m2mgermany.de/shop/

DISCLAIMER