# Sentrius<sup>™</sup> RG186-IP67/LTE

## LoRa-Enabled Gateway + Wi-Fi / Ethernet / LTE



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

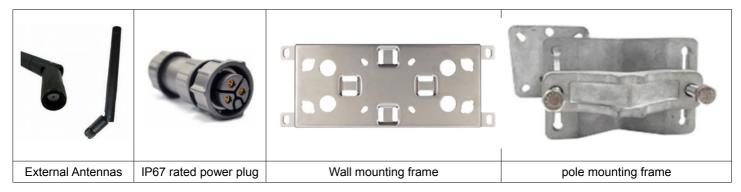
### **Hardware**

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**



## Sentrius<sup>™</sup> RG186-IP67/LTE





### **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/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

<sup>\*</sup> 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**

The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and may use of such marks by conbee is under license. Other trademarks and trade names are those of their respective owners.

In this manual are descriptions for copyrighted products that are not explicitly indicated as such. The absence of the trademark ( $^{TM}$ ) and copyright ( $^{CM}$ ) symbols does not imply that a product is not protected. Additionally, registered patents and trademarks are similarly not expressly indicated in this manual.

The information in this document has been carefully checked and is believed to be entirely reliable. However, conbee GmbH assumes no responsibility for any inaccuracies. m2m Germany GmbH neither gives any guarantee nor accepts any liability whatsoever for consequential damages resulting from the use of this manual or its associated product. m2m Germany GmbH reserves the right to alter the information contained herein without prior notification and accepts no responsibility for any damages which might result.

Additionally, m2m Germany GmbH offers no guarantee nor accepts any liability for damages arising from the improper usage or improper installation of the hardware or software. m2m Germany GmbH further reserves the right to alter the layout and/or design of the hardware without prior notification and accepts no liability for doing so.

© Copyright 2019 m2m Germany GmbH, 61273 Wehrheim, Germany.

Rights - including those of translation, reprint, broadcast, photomechanical or similar reproduction and storage or processing in computer systems, in whole or in part - are reserved. No reproduction may occur without the express written consent from m2m Germany GmbH .