M-GATEWAY COMPACT EU

Ordering info: RE.45.MGEU

Ruggedized compact IP67 gateway including a GPS receiver for advance timekeeping

Doc.nr.: SA2018MGATEWAY v1.0

Network Infrastructure

The M-gateway is a smart compact ruggedized IoT certified gateway solution, specifically designed for outdoor LoRa public or private network deployments. Its ruggedized compact IP67 design and easy setup makes this outdoor gateway ideal for zero-touch high volume deployments. The M-gateway can be remotely monitored and managed through RFI Services cloud-based managed services platform.

The compact M-gateway will be the perfect match for operators, utilities and enterprises looking for a turnkey public or private IoT network solution. The M-gateway provides a high-quality, low-cost support for LoRa-based IoT applications. The gateway is standard equipped with one LoRa transceiver (8 channels) and a uBlox MAX-M8W GPS receiver for advance timekeeping; enabling class-B operation. The M-gateway comes standard with RFI Linux (4.9.40) and LoRa packet forwarder 4.0.1. pre-installed on the micro SD card. Advanced users can easily replace the pre-installed image their own version(s) of the open source software.

Network Infrastructure

Connectors

Ethernet	Watertight RJ45
USB Host	Internal USB connector
LoRa	Watertight N-connector
GPS	Onboard GPS antenna

Power Requirements

Power Adapter	100-240V/AC to 48VDC PoE
Unit ships standard with a 100-240V AC PoE adapter	

Environmental

Operating Temperature	-0º to +70ºC with no derating
Storage Temperature	-40º to +90ºC
Relative Humidity	5% to 95% non-condensing
Altitude	0-10,000 feet
Cooling	Convectional - non vented case

Mechanical

Case Dimensions	260L x 110W x 60H (mm)
Weight	1025 grams, 36 Ounces

Features

LoRa 868MHz (EU) long range operation, up to 15 km range in line-of-sight and < 2 km in urban environment

8-channel design using SX1308 and 2x SX1257 chipset
Microchip AT91SAM9G25 MPU (ARM9@400Mhz)
DDR2 RAM 128 MB @ 16 bit
MicroSD holder push-pull, 16GB micro SD card included

Powered by 220V PoE
10/100Mbps Ethernet interface
Onboard GPS uBlox Max8W receiver and GPS antenna allowing for GPS time-sync for class-B operation

Command line interface
Web interface for local & remote configuration
Works with all major LoRaWAN Network Servers

Remote configurable and remote software upgrades
Extruded aluminum enclosure with pole mounting clamps
2 Year Warranty

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