



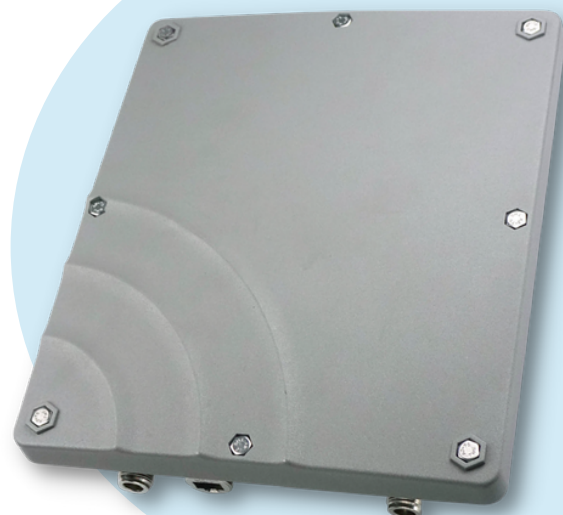
OrionM2M

Outdoor LoRaWAN Gateway

ORIONGATEWAY MICRO

FEATURES:

-  LoRaWAN Class A and C
-  Up to 15 km communicating range
-  Optional support 3G/4G backhaul
-  GPS built-in
-  Downlink LBT
-  Ethernet port (10/100Mbps) with PoE
-  Up to 16 concurrent channels for LoRa transmission
-  Distributed, secure, and scalable network



APPLICATIONS:

Smart City and Industrial IoT | Smart building and Industrial Control | Smart Agriculture | Other wireless sensing applications

General

CPU	Quad-core Cortex-A9 up to 1.6GHz
RAM/Flash	DDRIII 8Gbit/NAND 64Gbit
Operating temperature, °C	-40 ... - 60
Storage temperature, °C	-40 ... +60
External power AC, V	55V/0.6A via PoE Adaptor
Version	Outdoor
Interfaces	1 LAN port 2 LoRa antenna connectors 1 GPS antenna connector 1 3G/4G antenna (option)
IP Rating	IP67
Weight, kg	2.05
Warranty operating period, months	12

Radio

Communication protocol	LoRaWAN
Device class	A, C
Bands	EU862-870
Modulation	LoRa
Interferer rejection at 1 MHz offset	70 dB CW
LoRa antenna type	External N-Type
LoRa power output	up to 27 dBm (max)
Receiver sensitivity, dBm	up to -142
RF transceiver	SX1301 with SX1257
Number of channels	8
Channel Band Width	125/500 kHz
Communication range, km	up to 15

Package Content

Device	1
GPS antenna & RF cable	1
Mounting kit	1
RJ45 waterproof kit	1
3G/4G antenna	1
PoE power adapter & cord	1

Order Info

SKU	Description
	Outdoor LoRaWAN Gateway ORIONGATEWAY MICRO GPS built-in; 1 Ethernet port (10/100Mbps) with PoE; IP67; Outdoor; EU862-870 MHz 3G/4G
MICRO 868M-08	No 3G/4G Module
MICRO 868M-08-M-EU	EC25-E LTE module Bands: · LTE FDD – B1/B3/B5/B7/B20 · LTE TDD – B38/B40/B41 · WCDMA / TDSCDMA – B1/B5