



ResIoT® X4 M

Outdoor IP67 LoRaWAN® & Mioty® Base Station



ResIoT® X4 M is the latest LoRaWAN® & Mioty® **hybrid Base Station** model and it is one of the most powerful **Outdoor IP67 gateways**.

Its hardware components guarantee very **high performance** and make this gateway one of the best Base Station available on the market.

This device works in a range of temperatures from -20 °C to + 70 °C. ResIoT® X4 M provides durable, low-power, widearea connectivity in support of **M2M and IoT applications**. It is perfect for the demanding markets like **Smart Grid, Energy, Telecom and Broadcasting**.

6x Core Cortex ARM	RAM 2Gb eMMC 32Gb	PoE 42-60V or DC 12-24V	Super capacitors	Modem 4G LTE/3G/2G	ChipSIM MFF2	MicroSIM 3FF Slot	Waterproof case	-20°C to +70 °C 10%-90%H
Semtech SX1303	LoRaWAN® classes support	Mioty® radio chip EU0, EU1, EU2, US0	GPS GNSS	Wifi	Embedded sensors	Data Retention	LoRa Net Srv & IoT Platform	

CPU	2x A72 dual core 2Ghz + 4x A53 quad core 1.4Ghz
RAM & eMMC	RAM LPDDR4 2Gb, 32GB eMMC
Power Supply	PoE-Power over ethernet Input 42~60 VDC IEEE 802.3at, or 12-24 VDC (for Direct power supply or via Solar Panels). Max 5W Short power outage support with Supercapacitors up to 4 minutes
Modem & SIM	Only for LTE version, Modem Quectel EG91x 4G, LTE, 3G, 2G, EMEA EDGE GSM/GPRS Regulatory: GCF/ CE/ KC / NCC/ RCM / NBTC / FAC / ICASA Chip SIM MFF2 included and ready to activate (worldwide connectivity! Visit sim.resiot.io). MicroSIM 3FF slot available. You can use your own SIM Card (ChipSIM will be automatically deactivated)
Radio LoRa	Chipset Semtech SX1303, new generation of LoRa® baseband processor with Fine Timestamp capability that enables Time Difference of Arrival (TDOA) network-based geolocation, 8 Multi-SF LoRa® Channels, Listen before talk. Able to receive up to 8 LoRa® modulated packets simultaneously Class A, B (only for LTE version), C, Max TX Power +27 dBm, Receiving Sensitivity -142.5dBm
Radio Mioty	Mioty® radio chip embedded with EU0, EU1, EU2, US0 profiles (suitable for 868MHz & 915MHz applications). Max TX Power +14 dBm, Receiving Sensitivity -135dBm
Connectors	Ethernet 1 RJ-45 10/100 1x USB Host, 1x Micro USB Device Debug 1x LoRa SMA, 1x Mioty SMA
Wifi & BLE	802.11b/g/n + BLE
GPS	Only with LTE version, Module ublox MAX-M8Q (concurrent reception of up to 3 GNSS)
Sensors	Embedded Accelerometer, Temperature & Humidity Sensors
Antennas	EXTERNAL . LoRa 3.8dBi (Ø 20mm x L 450mm) . Mioty 3.8dBi (Ø 20mm x L 450mm) INTERNAL . Wifi . LTE (only for LTE version) . GPS (only for LTE version)
Working Parameters	-20°C~70°C. Operating Humidity 10%~90%, no condensing
Case & Size	IP67 Aluminum Case with plastic lid, 258mm x 228mm x 90mm, about 2.65 Kg