ResIOT® X7 868MHz

Outdoor IP67 Base Station LoRaWAN™ Gateway

Cortex-A7 629MHz	RAM 512Mb	4Gb eMMC	PoE 42-60 VDC[1]	DC 12-24 Volt[1]	Super capacitors[1]	RS-485[2]	ChipSIM MFF2[3]	MicroSIM 3FF Slot[3]	-40 to +85 °C 10%-95% H
Modem 2G 3G/4G LTE[4]	GPS GNSS[5]	Semtech SX1301[6]	LoRaWAN™ class support[7]	Embedded sensors[8]	Linux Yocto 4.1.15[9]	Wifi[10]	Waterproof case	LoRa Net Srv & IoT Platform[0]	

ResIOT® X7 is the latest **LoRaWAN™ Gateway/Base station Carrier-grade model**. It is specifically designed for outdoor application thanks to its **modern-designed IP67 aluminium case** and **waterproof** components & connectors. This gateway works in a range of industrial temperatures, from -40 °C to + 85 °C. That's makes our device suitable for every environmental conditions and this is the main reason of its wide market success. ResIOT® X7 provides durable, low-power, widearea connectivity in support of M2M and IoT applications. It is perfect for demanding markets like **Smart Grid, Energy, Telecom and Broadcasting**.

[0] Four modes of use: ❶LoRaWAN Gateway with ResIOT Merlin Base Station Client (for simple or carrier-grade networks with full remote control and secure connection with ResIOT GW Remote Access Server) ❷LoRaWAN Gateway with Semtech Packet Forwarder ❸Industrial IoT Box. On-premises ResIOT LoRaWAN Network Server and ResIOT IoT Platform all in a box with free unlimited license ❹Hybrid Mode 1+3 LoRaWAN Gateway with ResIOT Merlin Base Station Client & Industrial IoT Box

[1] It can be powered with PoE or DC12-24 Volt, or both at the same time for Uninterruptible Power Supply. Short power outage support with Supercapacitors up to 4 minutes

[2] Example: Modbus RTU RS-485 connection to external devices or solar panel control system. Optional: RS-232, CAN-bus

[3] 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)

[4] 2G-3G-4G LTE Modem Quectel EG91x

[5] GPS module ublox MAX-M8Q (concurrent reception of up to 3 GNSS)

[6] Semtech SX1301 up to 32 channels, FPGA, Listen Before Talk, Spectral Scan (from the last quarter of 2021 Semtech SX1303, new LoRa® baseband processor with Fine Timestamp capability & Time Difference of Arrival (TDOA) network-based geolocation)

[7] Support for class A, B, C (B only with GPS/GNSS version)

[8] Embedded Accelerometer, Shock, Inclination, Temperature & Humidity Sensors

[9] KIT Toolchain available for software developer

[10] Wifi Optional

LoRa Alliance Member™