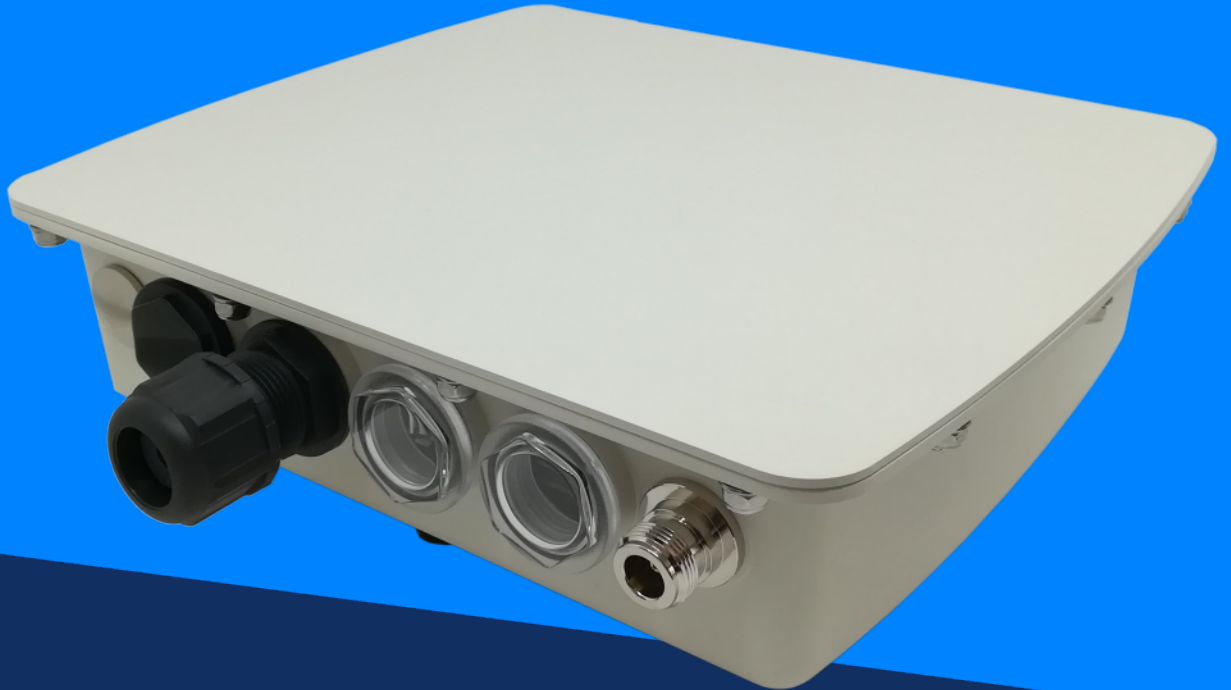






















# ResIoT® X4 868MHz

## Outdoor IP67 Base Station LoRaWAN™ Gateway



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

ResIoT® X4 is the latest **LoRaWAN™ Gateway/Base station Business-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® X4 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**.

<sup>0</sup> Four modes of use: **1** LoRaWAN 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) **2** LoRaWAN Gateway with Semtech Packet Forwarder **3** Industrial IoT Box. On-premises ResIoT LoRaWAN Network Server and ResIoT IoT Platform all in a box with free unlimited license **4** Hybrid Mode 1+3 LoRaWAN Gateway with ResIoT Merlin Base Station Client & Industrial IoT Box

<sup>1</sup> It can be powered with PoE or DC12-24 Volt, or both at the same time for Uninterruptible Power Supply

<sup>2</sup> Example: Modbus RTU RS-485 connection to external devices or solar panel control system. Optional: RS-232, CAN-bus

<sup>3</sup> Chip SIM MFF2 included and ready to activate (worldwide connectivity! Visit [sim.resiot.io](http://sim.resiot.io)). MicroSIM 3FF slot available. You can use your own SIM Card (ChipSIM will be automatically deactivated)

<sup>4</sup> 2G-3G-4G LTE Modem Quectel EG91x

<sup>5</sup> GPS module ublox MAX-M8Q (concurrent reception of up to 3 GNSS)

<sup>6</sup> Semtech SX1301, FPGA, Listen Before Talk, Spectral Scan (from the last quarter of 2021 Semtech SX1303, new generation of LoRa® baseband processor with Fine Timestamp capability that enables Time Difference of Arrival (TDOA) network-based geolocation)

<sup>7</sup> Support for class A, B, C (B only with GPS/GNSS version)

<sup>8</sup> Embedded Accelerometer, Shock, Inclination, Temperature & Humidity Sensors

<sup>9</sup> KIT Toolchain available for software developer

<sup>10</sup> Wifi Optional