



ResIOT-X2-Din-868 (v2021)

IOT BOX LoRaWAN® DIN-rail mounting industrial Gateway 868Mhz Eu

ResIOT® presents the latest generation of LoRaWAN® Gateway for IIoT (Industrial IoT) applications. Thanks to construction materials and DIN rail mounting, the ResIOT® x2-Din gateway is ideal for installation in very difficult environments and typically meets the requirements of any industrial application.

It is ideal for demanding markets: Smart Grid, Energy, Telecom and Broadcasting. This flexible solution provides durable, low-power, widearea connectivity in support of M2M and IoT applications. It is suitable for indoor installation or with suitable external houses for outdoor installation. The ResIOT-X2 gateway supports a range of industrial temperatures: -40° / $+85^{\circ}$





ResIoT-X2-Din-868 Specifications

Processor & Memory	ARM Cortex-A7 Processor 528/629MHz RAM DDR3 512MB, 4GB eMMC Flash, Cache 32 KB-I, 32 KB-D, 128 KB L2
Radio Frequency 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 Protocol 1.02, 1.03, 1.1. Class A,C Max TX Power +27 dBm, Receiving Sensitivity -142.5dBm
Power Supply/Consumption	12V/1.5A, Consumption about 12V/0.3A
Working Temp.	-40°C~85°C. Operating Humidity 10%~90%, no condensing
Relative Humidity	20% to 90%, non-condensing
Modem (only LTE version)	EMEA EDGE GSM/GPRS, 3G, 4G Regulatory: GCF/ CE/ KC / NCC/ RCM / NBTC / FAC / ICASA
WiFi	802.11bgn (optional)

ResIoT-X2-DIN Datasheet v.1.11 - 28-09-2021



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Connectors	Ethernet 1 RJ-45 10/100 1 x USB Host, 1 x Micro USB Device Debug LoRa 1xSMA LTE Antenna 1xSMA (only Modem version) 2 Pin connector RS485
OS	Linux 4.1.15 (Yocto)
Software	SSH, OpenVPN Four modes of use: 1) LoRaWAN® Gateway with ResIoT® Merlin Base Station Client (for business 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
Size / Dimension	3.871" L x 4.46" W (98.33mm x 113.28mm)
Height	2.717" (69.01mm)
Weight	0,350 Kg
Material	Aluminum, Polycarbonate Panels





ResIOT-X2 BASE STATION ORDERING INFORMATION

Model	Frequency Support	Description	Radio Channels	Modem 2G/3G/LTE	LoRa Antenna	2G/3G/LTE Antenna	LoRaWAN® Class Device support	Pre-installed Software
ResIOT-X2-ETH-1-868-00	863..870 MHz	ResIOT® X2 Gateway 8 channels 868Mhz, Ethernet, 12V power supply Included: 1xLoRa Antenna omni 868Mhz 3 dBi	8	N	1 x 3 dBi	N	A, C	ResIOT® Merlin IoT Box/Base Station Client, SSH Access, Custom configurable for other network servers
ResIOT-X2-LTE-1-868-00	863..870 MHz	ResIOT® X2 Gateway 8 channels 868Mhz, Ethernet,LTE/4G/3G/2G Modem , 12V power supply Included: 1xLoRa Antenna omni 868Mhz 3 dBi, 1xLTE Antenna	8	YES	1 x 3 dBi	1	A, C	ResIOT® Merlin IoT Box/Base Station Client, SSH Access, Custom configurable for other network servers
ResIOT-X2-LTE-1-868-IA	863..870 MHz	ResIOT® X2 Gateway 8 channels 868Mhz, Ethernet,LTE/4G/3G/2G Modem , 12V power supply Included: 1xLoRa Antenna omni 868Mhz 3 dBi, 1x Internal LTE Antenna	8	YES	1 x 3 dBi	1	A, C	ResIOT® Merlin IoT Box/Base Station Client, SSH Access, Custom configurable for other network servers

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ResIOT-X2-POE-SPLITTER		1 x PoE Splitter 12V Operation Temperature: -40 +70 Degree, Storage Temp: -40 +85 Degree							
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