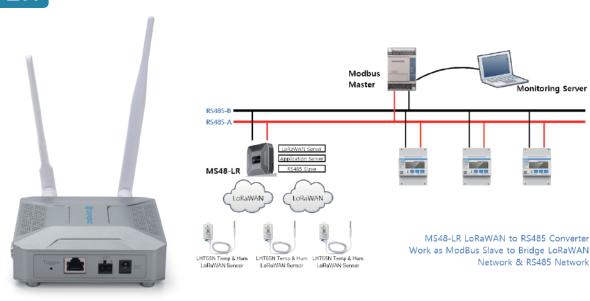


LoRaWAN To Modbus Gateway

MS48-LR



OVERVIEW:

The MS48-LR is an open-source LoRaWAN To Modbus Gateway. It lets you bridge LoRa wireless network to an IP network via WiFi, Ethernet or Cellular Network (via Optional 4G module). The LoRa wireless allows users to send data and reach extremely long ranges at low data rates.

The MS48-LR is fully compatible with LoRaWAN protocol. MS48-LR includes a built-in LoRaWAN Server and IoT server, User can connect virous LoRaWAN devices to MS48-LR, and use PLC to access these devices via Modbus network.

Different countries use different LoRaWAN frequency bands. MS48-LR has these bands pre-configured. Users can also customize the frequency bands to use in their own LoRa network.

MS48-LR supports remote management. System Integrator can easy to remote monitor the gateway and maintain it.

Features:

- Open Source Debian system
- Managed by Web GUI, SSH via LAN or WiFi
- 10 programmable parallel demodulation paths
- Pre-configured to support different LoRaWAN regional settings.
- Allow customizing LoRaWAN regional parameters.
- Different kinds of LoRaWAN Connections such as:
 - * Semtech UDP Packet Forwarder
 - * LoRaWAN Basic Station
 - * ChirpStack-Gateway-Bridge (MQTT)

- Remote Monitoring
- Auto-provisioning for batch deployment and management
- LoRaWAN Gateway
- Built-in ChirpStack local LoRaWAN server
- Built-in Node-Red local Application server
- Act as Modbus Slave mode
- Power Input: 12V, 2A, DC
- Operating Temperature: -20~70°C

Specifications:

Hardware System:

- CPU: Quad-core Cortex-A7 1.2Ghz
- RAM: 512MB
- eMMC: 4GB

Interface

- 10M/100M RJ45 Ports x 1
- Multi-Channel LoRaWAN Wireless
- WiFi 802.11 b/g/n
- USB 2.0 host connector x 1
- Mini-PCI E connector x 1
- RS485 Interface x 1
- RS232 Interface x 1

Part Number: MS48-LR-XX-YY

XX: Frequency Band

 XX: options: EU868, IN865, RU864, KR920, AS923, AU915, US915

YY: 4G Cellular Option

- EC25-E: EMEA, Korea, Thailand, India
- EC25-AFX: America:Verizon, AT&T(FirstNet), U.S.Cellular; Canada:Telus
- EC25-AUX: Latin America, New Zeland, Taiwan
- EC25-J: Japan, DOCOMO, SoftBank, KDDI

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