

GM-LGMini-WAN

LoRaWAN Mini Gateway

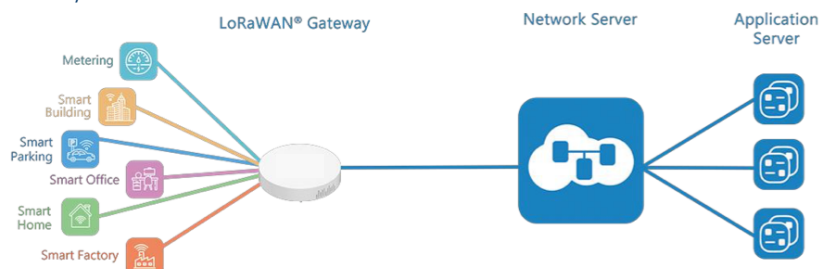


Features

- High performance NXP industrial processor with large memory
- SX1302 chip, handling higher traffic with lower power consumption
- 8 half/full-duplex channels
- Supports worldwide LoRaWAN frequency ranges from 470 MHz to 928 MHz
- Support Listen Before Talk (LBT) for downlink
- Desktop, wall or ceiling mounting support
- Compatible with the GOio IoT Cloud Platform for easy and centralised management and visualisation
- Security features with multiple VPNs IPsec/OpenVPN/L2TP/PPTP/DMVPN



- Compatible with mainstream network servers like The Things Industries, ChirpStack, etc.
- Built-in network server
- MQTT/HTTP/HTTPS API for easily integration



GM-LGMini-WAN is an 8-channel lightweight indoor LoRaWAN gateway. Adopting a SX1302 LoRa chip and high-performance CPU, GM-LGMini-WAN supports connections with more than 2000 nodes and can cover 15 km line of sight and 1 km in urban environments. With a compact size, it is ideally suited for offices, parking lots, campuses, hotels, exhibition centres and many other indoor areas. It is also well suited to provide coverage for indoor blind spots.

GM-LGMini-WAN has integrated network servers (such as TTN, ChirpStack, etc.), and a built-in network server. It is compatible with The GOio IoT Cloud Platform for easy deployment and data visualisation.

Hardware System	
CPU	528 MHz, ARM Cortex-A7
Memory	256 MB DDR4 RAM
Flash	4 GB eMMC
LoRaWAN	
Antenna	2 × Internal Antennas
Channel	8 (Half/Full-duplex)
Frequency Band	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4
Sensitivity	-140dBm Sensitivity @292bps
Output Power	27dBm Max
Protocol	V1.0 Class A/Class B/Class C and V1.0.2 Class A/Class B/Class C
LBT	Support
Ethernet Interface	
Port	1 × RJ45 (PoE PD supported)
Physical Layer	10/100 Base-T (IEEE 802.3)
Data Rate	10/100 Mbps (Auto-Sensing)
Interface	Auto MDI/MDIX
Mode	Full or Half Duplex (Auto-Sensing)
Others	
Reset Button	1 × RST
Console Port	1 × Type-C
LED Indicators	1 × SYS, 1 × LoRa
Built-in	Watchdog, RTC, Timer

Software	
Network Protocols	PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, DDNS, HTTP, HTTPS, DNS, ARP, SNTP, Telnet, SSH, MQTT, etc.
VPN Tunnel	OpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN
Management	Web, CLI, DeviceHub
Power Supply	
Power Input	1.1 × 802.3af standard PoE input 2.5V by Type-C Port
Physical Characteristics	
Ingress Protection	IP30
Dimensions	Φ 115 × 21 mm (Φ 4.52 × 0.83 in)
Color & Material	White, PC + ABS
Installation	Desktop, Wall or Ceiling Mounting
Environmental	
Operating Temperature	-20°C to +50°C (-4°F to +122°F)
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Ethernet Isolation	1.5 kV RMS
Relative Humidity	0% to 95% (non-condensing) at 25°C/77°F