UG63 LoRaWAN® Gateway

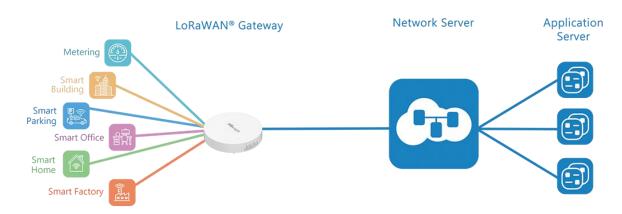




UG63 is a 8-channel lightweight indoor LoRaWAN® gateway. Adopting SX1302 LoRa chip and high-performance CPU, UG63 supports connection with more than 2000 nodes and can cover 15 km in sight and about 2 km in urbanized environment. With compact size, it is ideally suited for offices, parking lots, campuses, hotels, exhibition centers and many other indoor areas. It also applies to provide coverage for indoor blind spots.

UG63 has both integrated mainstream network servers (such as TTN, ChirpStack, etc.), and built-in network server, and it is compatible with Milesight IoT Cloud for easy deployment.

Application Example



◆ Features

- High performance NXP industrial processor with big memory
- Equip with SX1302 chip, handling a higher amount of traffic with lower consumption
- 8 half/full-duplex channels
- Support worldwide LoRaWAN[®] frequency range from 470 MHz to 928 MHz
- Support Listen Before Talk (LBT) for downlink
- Desktop, wall or ceiling mounting support

- DeviceHub and Milesight IoT Cloud provide easy and centralized management of remote devices
- Enable security communication with multiple
 VPNs like IPsec/OpenVPN/L2TP/PPTP/DMVPN
- Compatible with mainstream network servers like
 The Things Industries, ChirpStack, etc.
- Detect and analyze the noise level and provide intuitive diagram for deployment
- Built-in network server and MQTT/HTTP/HTTPS
 API for easily integration

Specifications

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	

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, Milesight IoT Cloud	
Power Supply and Consumption		
Power Input	1. 1 × 802.3af standard PoE input	
	2. 5V by Type-C Port	
Power Consumption	Max 3.3 W	
Physical Characteristics		
Ingress Protection	IP30	
Dimensions	Φ 115 x 21 mm (Φ 4.52 x 0.83 in)	
Color & Material	White, PC + ABS	
Installation	Desktop, Wall or Ceiling Mounting	
Environmental		
Operating	20°C to 150°C (1°E to 1120°E)	
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	









