



UG63

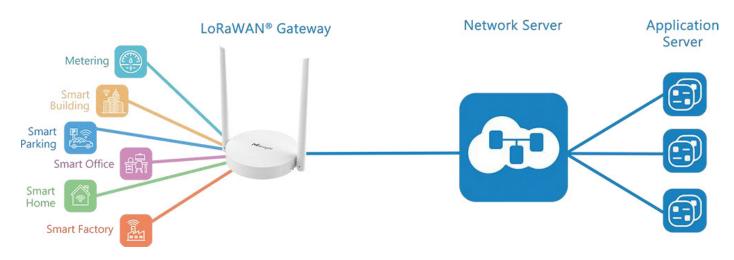
Mini LoRaWAN® Gateway

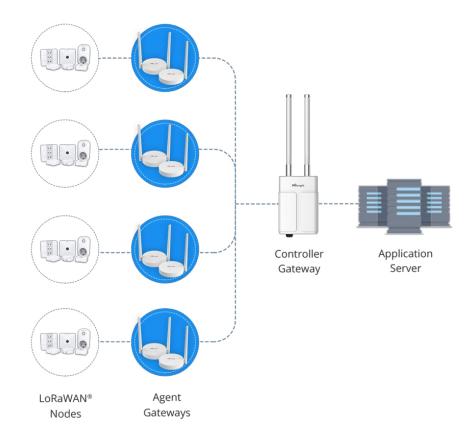


Small in Size, Big on Connectivity

UG63 is a 8-channel lightweight indoor LoRaWAN® gateway. Adopting, SX1302 chip, UG63 can set up packet forwarding connection between end nodes and mainstream network servers (such as TTN, Chirpstack, etc.). With its compact size and high performance, it is highly suitable for independent deployment of LoRaWAN® networks in small-scale scenarios or single spaces. It can also serve as a supplementary gateway, along with UG65/UG67 or other main gateways, to enhance LoRaWAN® signal coverage in large-scale scenarios by filling in signal blind spots. it is an ideal supplement for wide indoor areas such as office, parking lots and campuses.

Application Example





***Note:** This shows the blind-filling function among Milesight gateways.

Features

- Equip with SX1302 chip, handing a higher amount of traffic with lower consumption
- 8 half-duplex channels for more than 2000 end-nodes connections
- Small in size for easy carrying & deployment
- Desktop, wall or ceiling mounting support
- Multi backhaul backups with Ethernet and Cellular (4G)
- Cover the blind spot of LoRaWAN[®] network by transmitting data to Milesight UG56/UG65/UG
 67 controller gateway
- High cost performance, suitable for small applications
- Milesight DeviceHub2.0 & IoT Developer Platform provide easy and centralized management of remote devices
- Compatible with mainstream network servers like The Things Industries, ChirpStack, AWS IoT Core for LoRaWAN[®] and etc.

Specifications

Hardware System	
CPU	Dual-core 240MHz, 32-bit Xtensa [®] LX7
Memory	8 MB PSRAM

LoRaWAN®Antenna Connector1 × External AntennaChannel8 (Half-duplex)Frequency BandCN470//N865/EU868/RU864/US915/AU915/KR920/AS923-1&2&83&4Sensitivity-140dBm Sensitivity @292bpsOutput Power27dBm MaxProtocolV1.0 Class A/Class B/Class C and V1.0.2 Class A/Class B/Class CCellular Interface	Flash	16 MB Flash	
Channel8 (Half-duplex)Frequency BandCN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4Sensitivity-140dBm Sensitivity @292bpsOutput Power27dBm MaxProtocolV1.0 Class A/Class B/Class C and V1.0.2 Class A/Class B/Class CCellular Interface (U====================================	LoRaWAN®		
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Power Supply and Consumption 1. 5V by Type-C Port	LED Indicators	1 × SYSTEM, 1 x LTE	
1. 5V by Type-C Port	Built-in	Watchdog, Timer	
1. 5V by Type-C Port Power Input	Power Supply and Consumption		
	Power Input	1. 5V by Type-C Port	
2. 5~12V DC by 3.5mm 2-pin Terminal Block		2. 5~12V DC by 3.5mm 2-pin Terminal Block	

	3. 802.3af standard PoE input by (Optional) PoE Splitter	
Power Consumption	Typical 1.3W, Max 3.1 W	
Physical Characteristics		
Ingress Protection	IP30	
Dimensions	Φ 115 x 21 mm (Φ 4.52 x 0.83 in) (Antenna Excluded)	
Color & Material	White, PC + ABS	
Installation	Desktop, Wall or Ceiling Mounting	
Environmental		
Operating	-20°C to +50°C (-4°F to +122°F)	
Temperature		
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 $^\circ\mathrm{F}$	
Approvals		
Regulatory	CE, FCC	
Environmental	RoHS	

Accessories



2 × Wall Mounting Kits



1 ×Type-C Cable & Power Adapter**



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1 x PoE Splitter**
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To alert the support team about any issues you are experiencing, please send an email to or create a ticket in our support platform. Please click here: technical@bmetersuk.com

The support team will get back to you as soon as possible.

