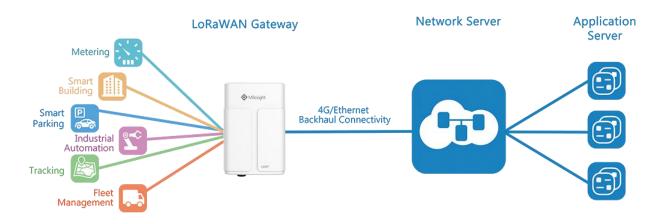


UG67 LoRaWAN® Gateway



UG67 is a robust 8-channel outdoor LoRaWAN[®] gateway. Adopting SX1302 LoRa chip and high-performance quad-core CPU, UG67 supports connection with more than 2000 nodes. UG67 has line of sight up to 15 km and IP67 waterproof case, which is ideally suited to smart agriculture, smart metering and many other outdoor applications.

UG67 supports not only multiple back-haul backups with Ethernet, Wi-Fi and cellular, but also has integrated mainstream network servers (such as TTI, ChirpStack, etc.) and built-in network server and Milesight IoT Cloud for easy deployment.



Application Example

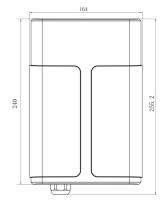
Features

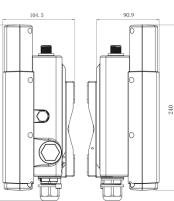
- Quad-core industrial processor with big memory
- Equip with SX1302 chip, handing a higher amount of traffic with lower consumption
- 8 half/full-duplex channels
- IP67 waterproof enclosure and industrial design for harsh environment applications
- Wall or pole mounting (optional)
- PoE or solar power supply (optional)
- Capacitor for sending alarms in case of power failure
- Multi backhaul backups with Ethernet, cellular (4G/3G) and Wi-Fi

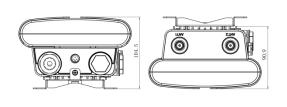
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- Devicehub and Milesight IoT Cloud provide easy and centralized management of remote devices
- Enable security communication with multiple VPNs like IPsec/OpenVPN/L2TP/PPTP/DMVPN
- Compatible with mainstream network servers like The Things Industries, 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
- Embedded Python SDK for users secondary development
- Fast and user-friendly programming by Node-RED development tool

Dimensions(mm)







Specifications

Hardware System	
CPU	Quad-core 1.5 GHz, 64-bit ARM Cortex-A53
Memory	512 MB DDR4 RAM
Flash	8 GB eMMC
LoRaWAN	
Antenna	2 × Internal Antennas + 2 × 50 Ω N-Female External Connectors
Channel	8 (Half/Full-duplex)

Frequency Band	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923/AS923-2	
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	
Ethernet Interface		
Port	1 × RJ45 (PoE PD supported)	
Physical Layer	10/100/1000 Base-T (IEEE 802.3)	
Data Rate	10/100/1000 Mbps (Auto-Sensing)	
Interface	Auto MDI/MDIX	
Mode	Full or Half Duplex (Auto-Sensing)	
Wi-Fi Interface		
Antenna	Internal Antenna	
Standards	IEEE 802.11 b/g/n, 2.4GHz	
Mode	AP or Client mode	
Security	WPA/WPA2 authentication, WEP/TKIP/AES encryption	
Tx Power	802.11b: 18 dBm +/-2.0 dBm (11 Mbps)	
	802.11g: 15 dBm +/-2.0 dBm (6 Mbps)	
	802.11g: 15 dBm +/-2.0 dBm (54 Mbps)	
	802.11n@2.4 GHz: 14 dBm +/-2.0 dBm (MCS0_HT20)	
	802.11n@2.4 GHz: 14 dBm +/-2.0 dBm (MCS7_HT20)	
	802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS0_HT40)	
	802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS7_HT40)	
Cellular Interface (Optional)		
Antenna	Internal Antenna	
SIM Slot	1 (mini SIM-2FF)	
GPS		
Antenna	Internal Antenna	
Sensitivity	-167dBm@Tracking, -149dBm@Acquisition, -161dBm@Re-acquisition	
Position Accuracy	<2.5m CEP	
Others		
Reset Button	1 × RST	
Console Port	1 × Type-C	
LED Indicators	1 × SYS, 1 × LoRa, 1 × LTE	
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	
Firewall	ACL/DMZ/Port Mapping/MAC Binding/URL Filter	
Management	Web, CLI, SMS, On-demand dial up, DeviceHub, Milesight IoT Cloud	
Reliability	WAN Failover	
Арр	Python SDK, Node-RED	
Power Supply and Consumption		
Power Input	1. 1 × 802.3 af PoE input	
	2. 12 VDC with M12 Connector	
Power Consumption	Typical 3.6 W, Max 4.8 W	
Physical Characteristics		
Ingress Protection	IP67	
Dimensions	250 x 172 x 92 mm (9.84 x 6.77 x 3.62 in)	
Installation	Wall or Pole Mounting	
Environmental		
Operating	-40°C to +70°C (-40°F to +158°F)	
Temperature	Reduced Cellular Performance Above 60°C	
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 $^\circ\mathrm{F}$	

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