

# UG67

## LoRaWAN® Gateway

Designed for Outdoor Application



**UG67 is a robust 8-channel outdoor IP67 LoRaWAN® gateway.**

**UG67 is adopting SX1302 LoRa chip and high-performance quad-core CPU.**

**UG67 supports connection of 2000 nodes.**

**UG67 has line of sight up to 15 km and can cover about 2 to 4 km in urbanized environment, which makes it ideal for smart city, agricultural and a range of other outdoor applications.**

**UG67 supports:**

- **PoE or optional solar power supply.**
- **Capacitor for sending alarms on power failure.**
- **Multiple back-haul backups with Ethernet, Wi-Fi and cellular, and integrated mainstream network servers (such as TTI, ChirpStack, etc.)**
- **Built-in network server and MQTT/HTTP/HTTPS API for easily integration.**
- **Embedded Python SDK for customer specific development.**
- **User-friendly programming by Node-RED.**

# UG67

Milesight

## LoRaWAN® Gateway Designed for Outdoor Application

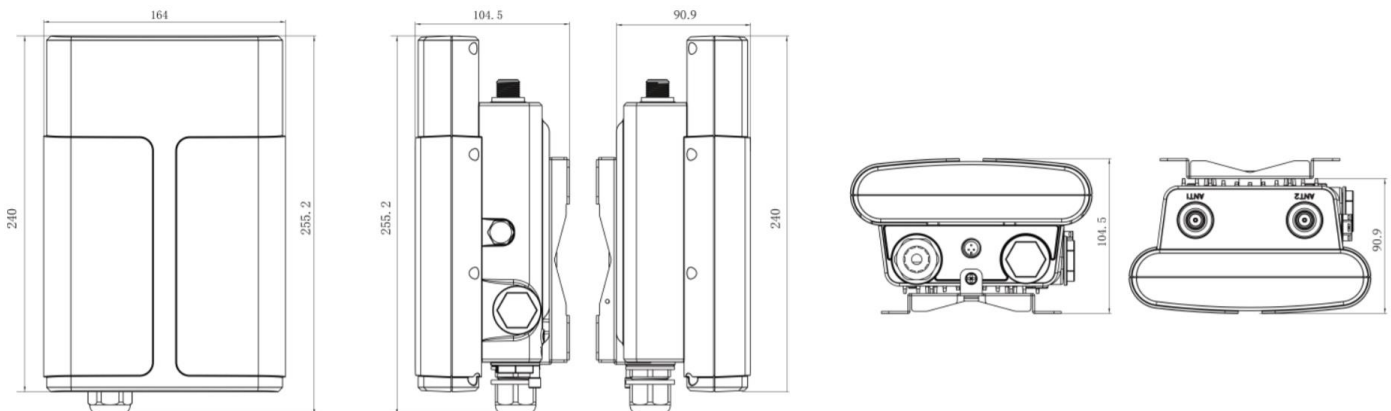


### System

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 (Optional: 2 × 50 Ω N-Female external connector)
Channels	8 Half/Full-duplex
Frequency bands	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



Specifications are according to the manufacturer and might change without any notice

**Sing Go Tech**

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### 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)



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### Cellular Interface (Optional)

Antenna	Internal antenna
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SIM slot	1 mini SIM-2FF
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### GPS

Antenna	Internal antenna
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Sensitivity	-167dBm@Tracking, -149dBm@Acquisition, -161dBm@Re-acquisition
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Position accuracy	<2.5m CEP
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### Others

Reset button	1 × RST
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Console port	1 × Type-C
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LED indicators	1 × SYS, 1 × LoRa, 1 × LTE
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Built-in	Watchdog, RTC, Timer
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### Software

Network protocols	PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, DDNS, HTTP, HTTPS, DNS, ARP, SNTP, Telnet, SSH, MQTT
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VPN tunnel	OpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN
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Firewall	ACL/DMZ/Port Mapping/MAC Binding/URL Filter
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Management	Web, CLI, SMS, On-demand dial up, DeviceHub
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### Software (Continued)

Reliability	WAN Failover
Applications	Python SDK, Node-RED

### Power

Power input	<ol style="list-style-type: none"><li>1 × 802.3 af PoE input</li><li>12 VDC with M12 Connector</li></ol>
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 temperature	40°C to +70°C (-40°F to +158°F) 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°F