# KUG67

## Lo Ra WAN G a te wa y

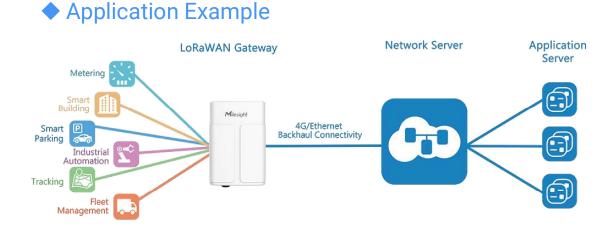
**Outdoor Gateway** 





KUG67 is a robust 8-channel outdoor LoRaWAN<sup>®</sup> gateway. Adopting SX1302 LoRa chip and high-performance quad-core CPU, KUG67 supports connection with more than 2000 nodes. KUG67 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.

KUG67 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.



#### 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

- Devicehub and KLED 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, Actility, Everynet, 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

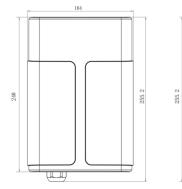
Hardware System	
CPU	Quad-core 1.5 GHz, 64-bit ARM Cortex-A53
Memory	512 MB DDR4 RAM
Flash	8 GB eMMC
LoRaWAN®	
Antenna	2 × Internal Antennas + 2 × 50 $\Omega$ N-Female External Connectors
Channel	8 (Half/Full-duplex)
Frequency Band	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4
Sensitivity	-140dBm 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
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

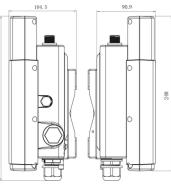
#### Specifications

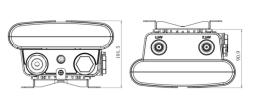
i-Fi Interface		
tenna I	Internal Antenna	
andards I	IEEE 802.11 b/g/n, 2.4GHz	
ode A	AP or Client mode	
curity	WPA/WPA2 authentication, WEP/TKIP/AES encryption	
8	802.11b: 18 dBm +/-2.0 dBm (11 Mbps)	
8	802.11g: 15 dBm +/-2.0 dBm (6 Mbps)	
8	802.11g: 15 dBm +/-2.0 dBm (54 Mbps)	
Power 8	802.11n@2.4 GHz: 14 dBm +/-2.0 dBm (MCS0_HT20)	
8	802.11n@2.4 GHz: 14 dBm +/-2.0 dBm (MCS7_HT20)	
8	802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS0_HT40)	
٤	802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS7_HT40)	
Cellular Interface (Optional)		
tenna I	Internal Antenna	
VI Slot	1 (mini SIM-2FF)	
PS		
tenna I	Internal Antenna	
nsitivity -	-167dBm@Tracking, -149dBm@Acquisition, -161dBm@Re-acquisition	
sition Accuracy	<2.5m CEP	
Others		
set Button	1 × RST	
onsole Port	1 × Туре-С	
D Indicators	1 × SYS, 1 × LoRa, 1 × LTE	
ilt-in \	Watchdog, RTC, Timer	
oftware		
F	PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, DDNS, HTTP, HTTPS, DNS,	
etwork Protocols	ARP, SNTP, Telnet, SSH, MQTT, etc.	
N Tunnel (	OpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN	
ewall A	ACL/DMZ/Port Mapping/MAC Binding/URL Filter	
	Web, CLI, SMS, On-demand dial up, DeviceHub, KLED IoT Cloud,	
anagement	Yeastar Workplace Platform	
liability	WAN Failover	
ip F	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	240 x 164 x 90.9 mm (9.45 x 6.46 x 3.58 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 $^\circ\mathrm{F}$	
Approvals		
Regulatory	CE, FCC, RCM,TELEC, ANATEL	
Environmental	RoHS	

## Dimensions(mm)







### Accessories









1 × PoE Injector

1 × Mounting Bracket

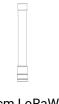
4 × Wall Mounting Kits

1 × RJ45 Cable Gland









1 × SIM Dust Cover

2 × Hose Clamps

1 × M12 DC Power Cable

2 × 60cm LoRaWAN<sup>®</sup> Antennas





1 × Antenna Coaxial Cable (1m)

1 × Antenna Clamp Kit

\*Note: Contact us if you need any other special accessories or customized accessories.