KUG67

Lo Ra WAN G a te wa y

Outdoor Gateway

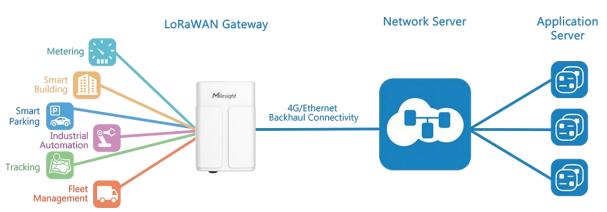




KUG67 is a robust 8-channel outdoor LoRaWAN® gateway. Adopting SX1302 LoRa chip and high-performance quad-core CPU, KUG67 supports connection with more than 2000 nodes. KUG67 has line of sight up to 15 km and IP67 waterproof case, which is ideally suited to smart agriculture, smart metering and many 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.

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

- 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

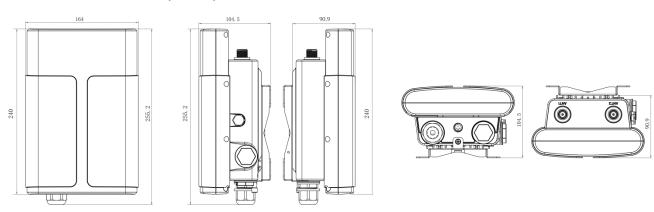
Specifications

Hardware System	
CPU	Quad-core 1.5 GHz, 64-bit ARM Cortex-A53
Memory	512 MB DDR4 RAM
Flash	8 GB eMMC
LoRaWAN®	
Antenna	$2 \times Internal Antennas + 2 \times 50 \Omega N$ -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

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	
	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)	
Tx Power	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		
National District	PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, DDNS, HTTP, HTTPS, DNS,	
Network Protocols	ARP, SNTP, Telnet, SSH, MQTT, etc.	
VPN Tunnel	OpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN	
Firewall	ACL/DMZ/Port Mapping/MAC Binding/URL Filter	
Managamant	Web, CLI, SMS, On-demand dial up, DeviceHub, KLED IoT Cloud,	
Management	Yeastar Workplace Platform	
Reliability	WAN Failover	
App	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°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



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

Cable (1m)