

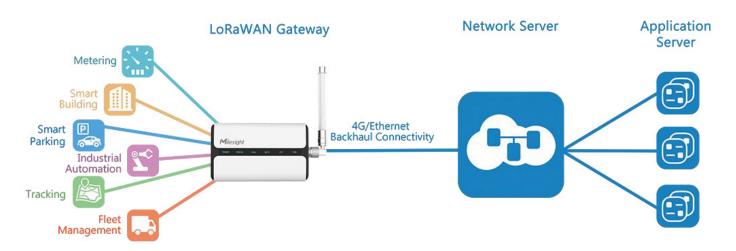




Transcend Connectivity, Embrace Possibility

UG65 is a robust 8-channel indoor LoRaWAN® gateway. Adopting SX1302 LoRa chip and high-performance quadcore CPU, UG65 supports connection with more than 2000 nodes. UG65 has line of sight up to 15 km and can cover about 2 km in urbanized environment, which is ideally suited to smart office, smart building and many other indoor applications. UG65 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, handling a higher amount of traffic with lower consumption
- 8 half/full-duplex channels
- IP65 enclosure and industrial design for parts of outdoor environment applications like eaves
- Desktop, wall or pole mounting
- Multi backhaul backups with Ethernet, cellular (4G/3G) and Wi-Fi
- 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, 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 (Optional: $1 \times 50 \Omega$ N-Female External Connector)
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	

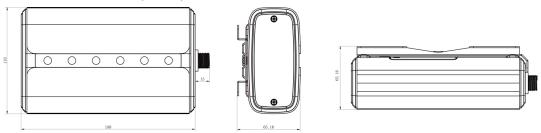
Standards IEEE 802.11 b/g/n, 2.4GHz Mode AP or Client mode Security WPA/WPA2 authentication, WEP/TKIP/AES encryption Security WPA/WPA2 authentication, WEP/TKIP/AES encryption 802.11b: 18 dBm +/-2.0 dBm (11 Mbps) 802.11g: 15 dBm +/-2.0 dBm (6 Mbps) 802.11g: 15 dBm +/-2.0 dBm (54 Mbps) 802.11g: 15 dBm +/-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) 802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS7_HT40) Cellular Interface (Optional) Antenna Internal Antenna SIM Slot 1 (mini SIM-2FF) Others Reset Button 1 × RST Console Port 1 × Type-C LED Indicators 1 × POWER, 1 × STATUS, 1 × LORa, 1 × Wi-Fi, 1 × LTE, 1 × ETH Built-in Watchdog, RTC, Timer Software Network Protocols ARP, SNTP, Telnet, SSH, MQTT, etc. VPN Tunnel Open/PN/IPsec/PPTP/L2TP/GRE/DMVPN Firewall ACL/DMZ/Port Mapping/MAC Binding/URL Filter Web, CLI, SMS, On-demand dial up, DeviceHub, Milesight loT Cloud, Y	Antenna	Internal Antenna	
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 (6 Mbps) 802.11n; 15 dBm +/-2.0 dBm (MCS0_HT20) 802.11n; 2.4 GHz: 14 dBm +/-2.0 dBm (MCS0_HT20) 802.11n; 2.4 GHz: 13 dBm +/-2.0 dBm (MCS0_HT40) 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) Others Reset Button 1 × RST Console Port 1 × Type-C LED Indicators 1 × POWER, 1 × STATUS, 1 × LoRa, 1 × Wi-Fi, 1 × LTE, 1 × ETH 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, Yeastar Workplace Platform Reliability WAN Failover <td>Standards</td> <td>IEEE 802.11 b/g/n, 2.4GHz</td>	Standards	IEEE 802.11 b/g/n, 2.4GHz	
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 (6 Mbps) 802.11g: 15 dBm +/-2.0 dBm (64 Mbps) 802.11g: 15 dBm +/-2.0 dBm (MCS0_HT20) 802.11n@2.4 GHz: 14 dBm +/-2.0 dBm (MCS0_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) 802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS0_HT40) 802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (Mode	AP or Client mode	
R02.11g: 15 dBm +/-2.0 dBm (6 Mbps) R02.11g: 15 dBm +/-2.0 dBm (54 Mbps) R02.11g: 15 dBm +/-2.0 dBm (McS0_HT20) R02.11n@2.4 GHz: 14 dBm +/-2.0 dBm (McS0_HT20) R02.11n@2.4 GHz: 13 dBm +/-2.0 dBm (McS0_HT40) R02.11n@2.4 GHz: 13 dBm +/-2.0 dBm (McS0_HT40) R02.11n@2.4 GHz: 13 dBm +/-2.0 dBm (McS0_HT40) R02.11n@2.4 GHz: 13 dBm +/-2.0 dBm (McS7_HT40) R02.11n@2.11n@2.4 GHz: 13 dBm +/-2.0 dBm (McS7_HT40) R02.11n@2.11n@2.11n@2.4 GHz: 13 dBm +/-2.0 dBm (McS7_HT40) R02.11n@2	Security	WPA/WPA2 authentication, WEP/TKIP/AES encryption	
Tx Power 802.11g: 15 dBm +/-2.0 dBm (54 Mbps)	Tx Power	802.11b: 18 dBm +/-2.0 dBm (11 Mbps)	
Tx Power 802.11n@2.4 GHz: 14 dBm +/-2.0 dBm (MCS0_HT20) 802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS7_HT20) 802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS7_HT40) Cellular Interface (Optional) Antenna Internal Antenna SIM Slot 1 (mini SIM-2FF) Others Reset Button 1 × RST Console Port 1 × Type-C LED Indicators 1 × POWER, 1 × STATUS, 1 × LoRa, 1 × Wi-Fi, 1 × LTE, 1 × ETH 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 Web, CLI, SMS, On-demand dial up, DeviceHub, Milesight IoT Cloud, Yeastar Workplace Platform Reliability WAN Failover App Python SDK, Node-RED Power Supply and Consumption 1. 9-24 VDC by DC Male Jack Connector 2. 1 × 802.3 af PoE input Power Consumption Typical 2.9 W, Max 4.2 W Physical Characteristics		802.11g: 15 dBm +/-2.0 dBm (6 Mbps)	
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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 Web, CLI, SMS, On-demand dial up, DeviceHub, Milesight IoT Cloud, Yeastar Workplace Platform Reliability WAN Failover App Python SDK, Node-RED Power Supply and Consumption 1. 9-24 VDC by DC Male Jack Connector 2. 1 × 802.3 af PoE input Power Consumption Typical 2.9 W, Max 4.2 W Physical Characteristics	Built-in	Watchdog, RTC, Timer	
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ARP, SNTP, Telnet, SSH, MQTT, etc. VPN Tunnel OpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN Firewall ACL/DMZ/Port Mapping/MAC Binding/URL Filter Web, CLI, SMS, On-demand dial up, DeviceHub, Milesight IoT Cloud, Yeastar Workplace Platform Reliability WAN Failover App Python SDK, Node-RED Power Supply and Consumption 1. 9-24 VDC by DC Male Jack Connector 2. 1 × 802.3 af PoE input Power Consumption Typical 2.9 W, Max 4.2 W Physical Characteristics	Notwork Protocolo	PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, DDNS, HTTP, HTTPS, DNS,	
Firewall ACL/DMZ/Port Mapping/MAC Binding/URL Filter Management Web, CLI, SMS, On-demand dial up, DeviceHub, Milesight IoT Cloud, Yeastar Workplace Platform Reliability WAN Failover App Python SDK, Node-RED Power Supply and Consumption 1. 9-24 VDC by DC Male Jack Connector 2. 1 × 802.3 af PoE input Power Consumption Typical 2.9 W, Max 4.2 W Physical Characteristics	NELWORK PROTOCOIS	ARP, SNTP, Telnet, SSH, MQTT, etc.	
Management Web, CLI, SMS, On-demand dial up, DeviceHub, Milesight IoT Cloud, Yeastar Workplace Platform Reliability WAN Failover App Python SDK, Node-RED Power Supply and Consumption 1. 9-24 VDC by DC Male Jack Connector 2. 1 × 802.3 af PoE input Power Consumption Typical 2.9 W, Max 4.2 W Physical Characteristics	VPN Tunnel	OpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN	
Management Yeastar Workplace Platform Reliability WAN Failover App Python SDK, Node-RED Power Supply and Consumption 1. 9-24 VDC by DC Male Jack Connector 2. 1 × 802.3 af PoE input Power Consumption Typical 2.9 W, Max 4.2 W Physical Characteristics	Firewall	ACL/DMZ/Port Mapping/MAC Binding/URL Filter	
Yeastar Workplace Platform Reliability WAN Failover App Python SDK, Node-RED Power Supply and Consumption 1. 9-24 VDC by DC Male Jack Connector 2. 1 × 802.3 af PoE input Power Consumption Typical 2.9 W, Max 4.2 W Physical Characteristics	Management	Web, CLI, SMS, On-demand dial up, DeviceHub, Milesight IoT Cloud,	
App Python SDK, Node-RED Power Supply and Consumption 1. 9-24 VDC by DC Male Jack Connector 2. 1 × 802.3 af PoE input Power Consumption Typical 2.9 W, Max 4.2 W Physical Characteristics		Yeastar Workplace Platform	
Power Supply and Consumption 1. 9-24 VDC by DC Male Jack Connector 2. 1 × 802.3 af PoE input Power Consumption Typical 2.9 W, Max 4.2 W Physical Characteristics	Reliability	WAN Failover	
Power Input 1. 9-24 VDC by DC Male Jack Connector 2. 1 × 802.3 af PoE input Power Consumption Typical 2.9 W, Max 4.2 W Physical Characteristics	App	Python SDK, Node-RED	
Power Input 2. 1 × 802.3 af PoE input Power Consumption Typical 2.9 W, Max 4.2 W Physical Characteristics	Power Supply and Consumption		
2. 1 × 802.3 af PoE input Power Consumption Typical 2.9 W, Max 4.2 W Physical Characteristics	Power Input	1. 9-24 VDC by DC Male Jack Connector	
Physical Characteristics		2. 1 × 802.3 af PoE input	
·	Power Consumption	Typical 2.9 W, Max 4.2 W	
Ingress Protection IP65	Physical Characteristics		
	Ingress Protection	IP65	

180 x 110 x 56.5 mm (7.09 x 4.33 x 2.22 in)

Dimensions

Installation	Desktop, 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, IC
Environmental	RoHS, REACH

Dimensions(mm)



Accessories



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.





