

MLS-GTWY-UG65-LTE

Milesight UG65 LoRaWAN Gateway - LTE

Product Overview

Milesight UG65 LoRaWAN Gateway - LTE, UG65-L04EU-868M-EA, LTE, Wi-Fi / PoE PD, 1x Gigabit WAN, Built in Network Server, IP65 rated



Specifications

Overview:

UG65 is a robust 8-channel indoor LoRaWAN gateway. Adopting SX1302 LoRa chip and high-performance quad-core 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.

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
- IP65 enclosure and industrial design for parts of outdoor environment applications like eaves
- Desktop, wall or pole mounting (optional)
- 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, 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:

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Product Specification Sheet

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Specifications

Product Code	MLS-GTWY-UG65-LTE
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Hardware System

CPU	Quad-core 1.5 GHz, 64-bit ARM Cortex-A53
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Memory	512 MB DDR4 RAM
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Flash	8 GB eMMC
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LoRaWAN

Antenna	2 x Internal Antennas (Optional: 1 x 50 ohm N-Female External Connector)
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Channel	8 (Half/Full-duplex)
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Frequency Band	CN470 / IN865 / EU868 / RU864 / US915 / AU915 / KR920 / AS923-1&2&3&4
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Sensitivity	-140dBm Sensitivity @292bps
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Output Power	27dBm Max
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Protocol	V1.0 Class A/Class B/Class C and V1.0.2 Class A/Class B/Class C
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Ethernet Interface

Port	1 x RJ45 (PoE PD supported)
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Physical Layer	10/100/1000 Base-T (IEEE 802.3)
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Data Rate	10/100/1000 Mbps (Auto-Sensing)
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Interface	Auto MDI/MDIX
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Mode	Full or Half Duplex (Auto-Sensing)
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Wi-Fi Interface

Antenna	Internal Antenna
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Standards	IEEE 802.11 b/g/n, 2.4 GHz
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Mode	AP or Client mode
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Security	WPA/WPA2 authentication, WEP/TKIP/AES encryption
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Tx Power	802.11b: 18 dBm +/-2.0 dBm (11 Mbps)
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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)
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802.11n@2.4 GHz: 14 dBm +/-2.0 dBm (MCS7_HT20)
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802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS0_HT40)
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802.11n@2.4 GHz: 13 dBm +/-2.0 dBm (MCS7_HT40)
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Others

Reset Button	1 x RST
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Console Port	1 x Type-C
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LED Indicators	1 x POWER, 1 x STATUS, 1 x LoRa, 1 x Wi-Fi, 1 x 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
App	Python SDK, Node-RED
Power Supply and Consumption	
Power Input	1. DC Jack Connector for 9-24 VDC power supply
	2. 1 x 802.3 af PoE input
Power Consumption	Typical 2.9 W, Max 4.2 W
Physical Characteristics	
Ingress Protection	IP65
Dimensions	180 x 110 x 56.5 mm (7.09 x 4.33 x 2.22 in)
Installation	Desktop, Wall or Pole Mounting
Environmental	
Operating	-40 degreesC to +70 degreesC (-40 degreesF to +158 degreesF)
Temperature	Reduced Cellular Performance Above 60 degreesC
Storage Temperature	-40 degreesC to +85 degreesC (-40 degreesF to +185 degreesF)
Ethernet Isolation	1.5 kV RMS
Relative Humidity	0% to 95% (non-condensing) at 25 degreesC/77 degreesF
Approvals	
Regulatory	CE, FCC, IC
Environmental	RoHS

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: <https://www.comx.co.za/MLS-GTWY-UG65-LTE-Milesight-UG65-LoRaWAN-Gateway-Buy-p-284850.php>

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