

## APPLICATIONS



- METERING
- SMART OFFICE
- SMART BUILDING
- SMART HOME
- SMART PARKING
- SMART FACTORY

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## FEATURES

**NXP INDUSTRIAL PROCESSOR**  
big memory

**SX1302 CHIP**  
higher amount of traffic = lower consumption

**SUPPORT LISTEN BEFORE TALK (LBT)**  
for downlink

**SUPPORT WORLDWIDE LORAWAN FREQ**  
range from 470 MHz to 928 MHz

**SUPPORT MAINSTREAM NETWORK SERVERS**  
the things industries, chirpstack, etc.

● **MULTIPLE SECURITY COMMUNICATION**  
vpn like ipsec/openvpn/l2tp/pptp/dmvpn

● **DESKTOP, WALL OR CEILING**  
mounting support

● **DETECT & ANALYZE NOISE LEVEL**  
provide intuitive diagram for deployment

● **BUILT-IN NETWORK SERVER**  
for easier integration

● **DEVICEHUB & MILESIGHT IOT CLOUD**  
for easy & centralized management of remote devices



# UG63 LoraWAN Gateway

## SPECIFICATIONS

### Hardware System

|        |                        |
|--------|------------------------|
| CPU    | 528 MHz, ARM Cortex-A7 |
| Memory | 256 MB DDR4 RAM        |
| Flash  | 4 GB eMMC              |

### LoRaWAN

|                |                                                                 |
|----------------|-----------------------------------------------------------------|
| Antenna        | 2 × Internal Antennas                                           |
| 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 |
| LBT            | Support                                                         |

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### Ethernet Interface

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

### Others

|                |                       |
|----------------|-----------------------|
| Reset Button   | 1 × RST               |
| Console Port   | 1 × Type-C            |
| LED Indicators | 1 × SYSTEM, 1 × LoRa  |
| Built-in       | Watchdog, RTC & Timer |

### Software

|                   |                                                                                                   |
|-------------------|---------------------------------------------------------------------------------------------------|
| Network Protocols | PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, DDNS, HTTP, HTTPS, DNS, ARP, SNMP, Telnet, SSH, MQTT, etc. |
|-------------------|---------------------------------------------------------------------------------------------------|



# UG63 LoraWAN Gateway

|            |                                          |
|------------|------------------------------------------|
| VPN Tunnel | OpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN        |
| Management | Web, CLI, DeviceHub, Milesight IoT Cloud |

## Power Supply & Consumption

|                   |                                                           |
|-------------------|-----------------------------------------------------------|
| Power Input       | 1. 1 × 802.3af standard PoE input<br>2. 5V by Type-C Port |
| Power Consumption | Max 3.3 W                                                 |

## Physical Characteristics

|                    |                                   |
|--------------------|-----------------------------------|
| Ingress Protection | IP30                              |
| Dimensions         | Φ 115 x 21 mm (Φ 4.52 x 0.83 in)  |
| Color & Material   | White, PC + ABS                   |
| Installation       | Desktop, Wall or Ceiling Mounting |

## Environmental

|                       |                                         |
|-----------------------|-----------------------------------------|
| Operating Temperature | -20°C to +50°C (-4°F to +122°F)         |
| 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 |

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## SCHEMATIC DIAGRAM

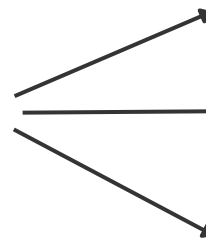
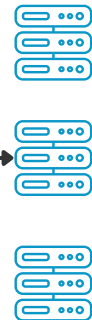
LoRaWAN Gateway



Network Server



Application Server



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