# KL63 Lo Ra WAN G a te wa y

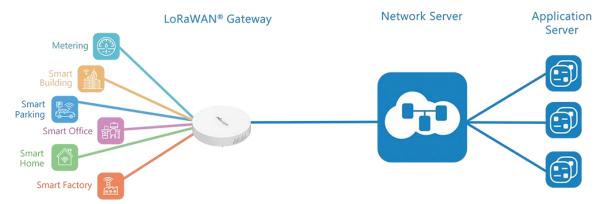


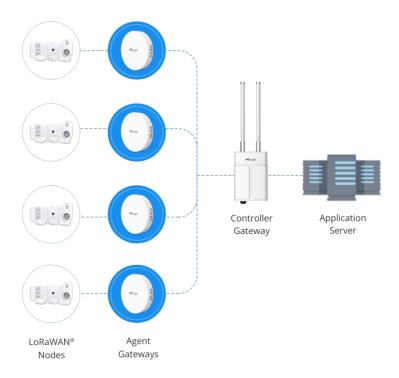


KL63 is a 8-channel lightweight indoor LoRaWAN <sup>®</sup> gateway. Adopting, SX1302 chip and high-performance CPU, KL63 can not only set up packet forwarding connection between more than 2000 end nodes and mainstream network servers (such as TTN, Chirpstack, etc.), but also cover up to 2 km in urbanized environment as a blind-filling gateway. With compact size, it is an ideal supplement for KL65 or KL67 for blind-filling in complex environment or wide indoor areas such as office, parking lots, campuses, etc.

Besides, KL63 also has built-in network server and is compatible with Kled measurement IoT for dealing with data for a few end-nodes, suitable for LoRaWAN® small deployments.

#### Application Example





\*Note: This shows the blind-filling function among Kled measurement gateways.

#### ◆ Features

- High Performance NXP industrial processor and SX1302 chip
- 8 half/full-duplex channels
- Support Listen Before Talk (LBT) for downlink
- Small in size for easy carrying & deployment
- Desktop, wall or ceiling mounting support
- Cover the blind spot of LoRaWAN® network by transmitting data to Kled measurement KL56/KL65/KL
   67 controller gateway

- Kled measurement DeviceHub & 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.
  - Built-in network server and MQTT/HTTP/HTTPS

    API for easily integration
- Support 20-50 end nodes with embedded NS for small deployment

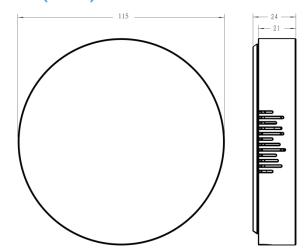
### Specifications

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

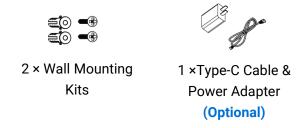
LoRaWAN		
Antenna	2 × Internal Antennas	
Channel	8 (Half/Full-duplex)	
Frequency Band	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4	
Sensitivity	-140dBm Sensitivity @292bps	
Output Power	27dBm Max	
Protocol	V1.0 Class A/Class B/Class C and V1.0.2 Class A/Class B/Class C	
LBT	Support	
Ethernet 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 × SYS, 1 × LoRa	
Built-in	Watchdog, RTC, Timer	
Software		
Naturalis Dratagala	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	
Management	Web, CLI, DeviceHub, Kled measurement IoT Cloud	
Power Supply and C	onsumption	
Dowar Innut	1. 1 × 802.3af standard PoE input	
Power Input	2. 5V by Type-C Port	
Power Consumption	Max 3.3 W	
Physical Characteris	stics	
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	-20°C to +50°C (-4°F to +122°F)	

Temperature	
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
Environmental	RoHS

## ◆ Dimensions (mm)



#### Accessories



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