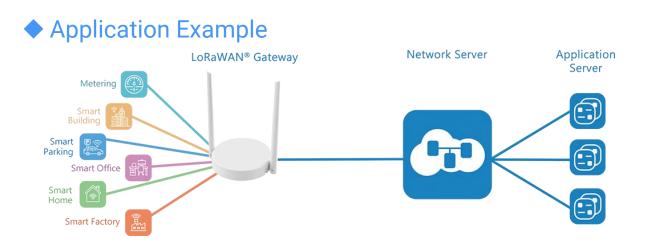
NI63

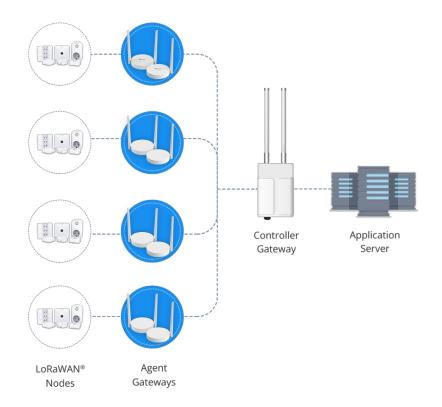


LoRaWAN® Gateway



NI63 is a 8-channel lightweight indoor LoRaWAN[®] gateway. Adopting, SX1302 chip, UG63 can set up packet forwarding connection between end nodes and mainstream network servers (such as TTN, Chirpstack, etc.). With its compact size and high performance, it is highly suitable for independent deployment of LoRaWAN[®] networks in small-scale scenarios or single spaces. It can also serve as a supplementary gateway, along with NI65/NI67 or other main gateways, to enhance LoRaWAN[®] signal coverage in large-scale scenarios by filling in signal blind spots. it is an ideal supplement for wide indoor areas such as office, parking lots, campuses, etc.





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

Features

- Equip with SX1302 chip, handing a higher amount of traffic with lower consumption
- 8 half-duplex channels for more than 2000 end-nodes connections
- Small in size for easy carrying & deployment
- Desktop, wall or ceiling mounting support
- Multi backhaul backups with Ethernet and Cellular (4G)
- Cover the blind spot of LoRaWAN[®] network by transmitting data to NI56/NI65/NI67 controller gateway
- High cost performance, suitable for small applications
- Compatible with mainstream network servers like The Things Industries, ChirpStack, AWS IoT Core for LoRaWAN[®] and etc.

Specifications

Hardware System	
CPU	Dual-core 240MHz, 32-bit Xtensa [®] LX7
Memory	8 MB PSRAM

Flash	16 MB Flash	
LoRaWAN®		
Antenna Connector	1 × External Antenna	
Channel	8 (Half-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	
Cellular Interface (Optional)		
Network	4G LTE (CAT 1)/GSM	
Antenna	1 x External Antenna	
Cellular Band	L08GL (Global except North America):	
	LTE-FDD: B1/2/3/4/5/7/8/12/13/17/18/19/20/25/26/28/66	
	LTE-TDD: B34/38/39/40/41;	
	GSM: B2/3/5/8	
	L09NA (North America):	
	LTE-FDD: B2/4/5/12/13/66	
SIM Slots	1 (Micro SIM-3FF)	
Ethernet Interface		
Port	1 × RJ45 WAN Port	
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)	
Wi-Fi		
Standards	IEEE 802.11b/g/n, 2.4 GHz	
Mode	AP Mode (Device Configuration Only)	
Others		
Button	1 × Reset Button	
Console Port	1 × USB 2.0 (Type-C) for Power Supply and Console	
LED Indicators	1 × SYSTEM, 1 x LTE	
Built-in	Watchdog, Timer	
Power Supply and Consumption		
Power Input	1. 5V by Type-C Port	
	2. 5~12V DC by 3.5mm 2-pin Terminal Block	

3. 802.3af standard PoE input by (Optional) PoE Splitter