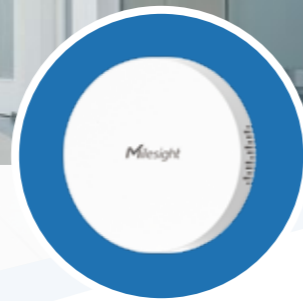


Mini LoRaWAN® Gateway

UG63 is a mini-sized indoor LoRaWAN® gateway that fits the LoRaWAN® network coverage for blind spots and standalone deployment.



Overall Features

- Mini Size for Flexible Installation
- Gateway Fleet for Better Blind Spot Coverage
- Listen Before Talk (LBT) for Downlink Data Integrity
- Semtech SX1302 Chip for Standalone Deployment
- Embedded Network Server Compatible with TTN, ChirpStack, Everynet, Senet, etc.

UG63

Model	UG63	
LoRaWAN®	Chipset	SX1302, 8 Channels (Half/Full-duplex)
	Frequency	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4
	Protocol	V1.0 Class A/Class B/Class C and V1.0.2 Class A/Class B/Class C
Connectivity	Ethernet	1 x RJ45 (PoE PD Supported), 10/100 Base-T (IEEE 802.3)
Hardware	CPU	528 MHz, ARM Cortex-A7
	Built-in	Watchdog, RTC, Timer
	Power Supply	① 1 x 802.3af Standard PoE Input ② 5V by Type-C Port
Physical Characteristics	Ingress Protection	IP30
	Dimension	Φ 115 x 21 mm (Φ 4.52 x 0.83 in)
	Installation	Desktop, Wall Mounting

Industrial LoRaWAN® Gateway

UG56 is a high-performance 8-channel LoRaWAN® gateway that offers reliable connectivity for industrial applications.



Overall Features

- Industrial-Grade Design with Compact Size
- Stay Connected via Ethernet, Cellular, and Wi-Fi
- Gateway Fleet for Comprehensive Networking
- Listen Before Talk (LBT) for Downlink Data Integrity
- Semtech SX1302 Chip with High-Performance Quad-Core CPU
- Embedded Network Server Compatible with TTN, ChirpStack, Everynet, Senet, etc.
- BACnet/IP Support for Seamless Integration into Existing Building Management Systems (BMS)

UG56

Model	UG56	
LoRaWAN®	Chipset	SX1302, 8 Channels (Half-duplex)
	Antenna	1 x 50 Ω SMA Connector (Center PIN: SMA Female)
	Frequency	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4
	Protocol	V1.0 Class A/Class B/Class C and V1.0.2 Class A/Class B/Class C
Connectivity	Ethernet	1 x RJ45 PoE PD Port, 10/100/1000 Base-T (IEEE 802.3)
	Wi-Fi	IEEE 802.11b/g/n, 2.4 GHz
	Cellular (Opt.)	1 x Mini SIM-2FF, Support Global GSM/3G/4G LTE Frequency Bands
Hardware	CPU	Quad-core 1.3 GHz, 64-bit ARM Cortex-A35
	Power Supply	① 1 x 802.3af Standard PoE Input ② 5V by Type-C Port
Physical Characteristics	Ingress Protection	IP30
	Dimension	110 x 75 x 24 mm (4.33 x 2.95 x 0.94 in)
	Installation	Desktop, Wall Mounting

Semi-Industrial LoRaWAN® Gateway

UG65 is a robust 8-channel LoRaWAN® gateway that is ideally suited to smart office, smart building and many other indoor applications.



Overall Features

- IP65 Rated and UV Resistance
- Stay Connected via Ethernet, Cellular, and Wi-Fi
- Gateway Fleet for Comprehensive Networking
- Listen Before Talk (LBT) for Downlink Data Integrity
- Semtech SX1302 Chip with High-Performance Quad-Core CPU
- Embedded Network Server Compatible with Actility, AWS, TTN, ChirpStack, Everynet, Senet, etc.
- BACnet/IP Support for Seamless Integration into Existing Building Management Systems (BMS)

UG65

Model		UG65
LoRaWAN®	Chipset	SX1302, 8 Channels (Half/Full-duplex)
	Antenna	1 x 50 Ω N-Female External Connector (Opt.)
	Frequency	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4
	Protocol	V1.0 Class A/Class B/Class C and V1.0.2 Class A/Class B/Class C
Connectivity	Ethernet	1 x RJ45 PoE PD Port, 10/100/1000 Base-T (IEEE 802.3)
	Wi-Fi	IEEE 802.11b/g/n, 2.4 GHz
	Cellular (Opt.)	1 x Mini SIM-2FF, Support Global GSM/3G/4G LTE Frequency Bands
Hardware	Processor	Quad-core 1.5 GHz, 64-bit ARM Cortex-A53
	Built-in	Watchdog, RTC, Timer
	Power Supply	① 1 x 802.3 af Standard PoE Input ② 9 ~ 24 VDC by DC Male Jack Connector
Physical Characteristics	Ingress Protection	IP65
	Dimension	180 x 110 x 56.5 mm (7.09 x 4.33 x 2.22 in)
	Installation	Desktop, Wall or Pole Mounting

Outdoor LoRaWAN® Gateway

UG67 is a robust 8-channel LoRaWAN® gateway that is well-matched to smart agriculture, smart metering and many other outdoor applications.



Overall Features

- IP67 Rated and UV Resistance
- Stay Connected via Ethernet, Cellular, and Wi-Fi
- Gateway Fleet for Comprehensive Networking
- Listen Before Talk (LBT) for Downlink Data Integrity
- Semtech SX1302 Chip with High-Performance Quad-Core CPU
- Embedded Network Server Compatible with Actility, AWS, TTN, ChirpStack, Everynet, Senet, etc.
- BACnet/IP Support for Seamless Integration into Existing Building Management Systems (BMS)

UG67

Model		UG67
LoRaWAN®	Chipset	SX1302, 8 Channels (Half/Full-duplex)
	Antenna	2 x 50 Ω N-Female External Connectors
	Frequency	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4
	Protocol	V1.0 Class A/Class B/Class C and V1.0.2 Class A/Class B/Class C
Connectivity	Ethernet	1 x RJ45 PoE PD Port, 10/100/1000 Base-T (IEEE 802.3)
	Wi-Fi	IEEE 802.11b/g/n, 2.4 GHz
	Cellular (Opt.)	1 x Mini SIM-2FF, Support Global GSM/3G/4G LTE Frequency Bands
	GPS	Support (Internal Antenna)
Hardware	Processor	Quad-core 1.5 GHz, 64-bit ARM Cortex-A53
	Built-in	Watchdog, RTC, Timer
	Power Supply	① 1 x 802.3 af Standard PoE Input ② 12 VDC with M12 Connector
Physical Characteristics	Ingress Protection	IP67
	Dimension	240 x 164 x 90.9 mm (9.45 x 6.46 x 3.58 in)
	Installation	Wall or Pole Mounting