

LoRaWAN® Gateway



- UG63 Mini LoRaWAN® Gateway
- UG65 Semi-Industrial LoRaWAN® Gateway
- UG67 Outdoor LoRaWAN® Gateway

Overall Features

- | NXP Quad-core Industrial Processor
- | 512 MB DDR4 RAM
- | Semtech SX1302 chip
- | 8 half/full-duplex Channels
- | OpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN
- | Compatible with AWS, TTN, Lorient, ChirpStack, etc.
- | Embedded Network Server
- | MQTT/HTTP/HTTPS API
- | CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923
- | LoRaWAN® Class B
- | Noise Analyzer
- | Multicast
- | Gateway Fleet
- | LoRa Basics™ Station
- | Embedded Python SDK

Respective Features

Model Feature	UG63 Mini LoRaWAN® Gateway	UG65 Semi-Industrial LoRaWAN® Gateway	UG67 Outdoor LoRaWAN® Gateway
Enclosure	IP30 enclosure and mini-sized	IP65 rating and semi-industrial grade	IP67 waterproof and industrial design
Installation way	Desktop, wall or ceiling mounting	Desktop, wall or pole mounting	Wall or pole mounting
Power input	Connector or PoE	Connector or PoE	Connector, PoE or solar power supply (optional)
Backhaul backup	Ethernet	Ethernet, cellular and Wi-Fi	Ethernet, cellular and Wi-Fi
Power outage alert	N/A	N/A	Yes

LoRaWAN® Sensor



AM100 Series - Indoor Ambience Monitoring Sensor



- AM104
- AM107

- Clean & modern design
- Multiple sensors in one
 - AM104: Temperature, humidity, light, activity level (PIR)
 - AM107: Temperature, humidity, light, activity level (PIR), CO₂, TVOC, barometric pressure
- Easy configuration with NFC technology
- E-ink screen
- 2 x AA alkaline batteries lasting for 1 year
- Smart screen mode for power saving
- Compliant with Miesight IoT Cloud

AM300 Series - LoRaWAN® Ambience Monitoring Sensor

- Multiple sensors in one
 - AM307: Temperature, humidity, PIR, light, TVOC, barometric pressure, CO₂
 - AM319: Temperature, humidity, PIR, light, TVOC, barometric pressure, CO₂, PM2.5 & PM10, HCHO/O3



AM307 ● AM319 ●

- Emoticon indication
- Three display styles with light & dark theme
- Traffic light indicator & buzzer
- Anti-theft design

EM300 Series - Environment Monitoring Sensor



EM300-TH ●



EM300-SLD ●



EM300-ZLD ●



EM300-MCS ●







EM310-UDL ●

Overall Features

- Sensirion industrial-grade digital sensor
Provide ± 0.3 °C high accuracy of temperature and $\pm 3\%$ RH of humidity
- IP67 rated enclosure
- Long range radio technology (LoRa)
With a range of up to 15 km in rural areas and 2 km in urban areas
- 2 x ER18505 4000 mAh Li-SOCI2 battery

Respective Features

Model	Features
 <p>EM300-TH Temperature & Humidity Sensor</p>	<ul style="list-style-type: none"> • Sensirion industrial-grade digital temperature & humidity sensor • ± 0.3 °C high accuracy of temperature and $\pm 3\%$ RH of humidity
 <p>EM300-SLD/ZLD Leak Detection Sensor</p>	<ul style="list-style-type: none"> • Detect the presence of liquids and based on conductive principle (SLD: Spot leak detection ZLD: Zone leak detection)
 <p>EM300-MCS Magnetic Contact Switch</p>	<ul style="list-style-type: none"> • Detect the opening or closing event of door & window to ensure security
 <p>EM310-UDL Ultrasonic Distance/ Level Sensor</p>	<ul style="list-style-type: none"> • 3-450 cm wide measuring range • Built-in 3-axis accelerometer for device motion detection








EM500 Series - Outdoor Environment Monitoring Sensor

Overall Features

- | IP67 rating
- | Built-in 19000 mAh replaceable battery
- | Equipped with NFC for easy configuration
- | Ultra-wide-distance transmission up to line of sight of 15 km



Respective Features

Model	Features
 <p>EM500-SMTC/SMT Soil Moisture, Temperature and Electrical Conductivity Sensor</p>	<ul style="list-style-type: none"> • Research-grade accuracy in multiple soil media • Corrosion resistance & tough probe • Rapid monitoring of growing conditions
 <p>EM500-LGT Light Sensor</p>	<ul style="list-style-type: none"> • Accurate detection of any light changes • Measuring ranges from 0 to 100,000 lux with high precision
 <p>EM500-PP Pipe Pressure Sensor</p>	<ul style="list-style-type: none"> • Shock-resistant & vibration-resistant & corrosion-resistant • Measuring accuracy less than $\pm 0.5\%$ FS & no leakage danger • Temperature compensation for correction of temperature changes
 <p>EM500-SWL Submersible Water Level Sensor</p>	<ul style="list-style-type: none"> • Submersible pressure sensor not affected by foam, wind, or rain • Measuring medium: water (Customizable for oil and other non-corrosive media) • Customizable measuring range up to 200 m
 <p>EM500-PT100 Industrial Temperature Sensor</p>	<ul style="list-style-type: none"> • Customizable temperature (-200 ~ 800 °C) • Terminal heads available in straight tube, armoured, SMT, Threaded, Magnet
 <p>EM500-UDL Ultrasonic Distance/Level Sensor</p>	<ul style="list-style-type: none"> • Suitable for measuring benign & chemical mediums • Non-contact detection for any corrosive liquid chemicals or combustibles • Measurements in very small containers or openings • Measuring ranges: 0.3-5 m/0.5-10 m
 <p>EM500-CO₂ Carbon Dioxide Sensor (4 in 1)</p>	<ul style="list-style-type: none"> • 4 in 1 (CO₂, barometric pressure, humidity, temperature) • Measuring ranges from 400 ppm to 5000 ppm

CoWork Series Featuring LoRaWAN®



VS121 AI Workplace Sensor

- Anonymous detection
- > 95% recognition rate
- Custom detection region
- Compliant with the GDPR

WS101 Smart Button

- Support multiple press actions
- Convenient size
- Built-in LED indicator & buzzer
- Support Misesight LoRa D2D Protocol

WS136 & WS156 Smart Scene Panel

- Battery-powered (5 years battery life)
- 100% wire-free
- Customizable display with E-Ink screen
- Support Misesight LoRa D2D Protocol

WS202 PIR & Light Sensor

- Occupancy or motion detection
- Convenient size
- Built-in light sensor & PIR sensor
- Support Misesight LoRa D2D Protocol

WS301 Magnetic Contact Switch

- 100% wire-free
- Tamper detection
- Built-in 1200 mAh replaceable battery
- Built-in LED indicator
- Support Misesight LoRa D2D Protocol

WS52x Portable Socket

- Remote & time-based ON/OFF
- Power consumption measurement
- Overload protection

Industrial Cellular Router







- UR32L
- UR32
- UR35
- UR75

Overall Features

- | Industrial-grade design
- | IPsec/OpenVPN/GRE/L2TP/PPTP/DMVPN
- | Dual SIM failover (Except UR32L)
- | Support DIN rail or shelf mounting

Respective Features

Model	Sub-series	Features
Lite Series	 UR32L Industrial Cellular Router	<ul style="list-style-type: none"> ● Global 4G LTE network ● Rich interfaces PoE (optional) 2 x Ethernet ports
Pro Series	 UR32 Industrial Cellular Router	<ul style="list-style-type: none"> ● Rich interfaces Wi-Fi/GPS (alternative) PoE (optional) 2 x Ethernet ports, 1 x RS232, 1 x DI, 1 x DO ● Embedded Python SDK supporting secondary development
	 UR35 Industrial Cellular Router	<ul style="list-style-type: none"> ● Rich interfaces 4 x PoE PSE Ethernet ports 1 x RS232, 1 x RS485, 1 x DI, 1 x DO Wi-Fi & GPS FXS port for telephone communication ● Wide input voltage ● Embedded Python SDK supporting secondary development
Ultra Series	 UR75 5G Industrial Router	<ul style="list-style-type: none"> ● Fast speed 4G/5G network ● Rich interfaces Gigabit Ethernet ports for lightning transmission of data 2 x 2 MIMO 802.11ac Wi-Fi 1 x RS232, 1 x RS485, 1 x DI, 1 x DO Wi-Fi & GPS ● Embedded Python SDK supporting secondary development



Controller

IoT Controller

- Rich interfaces: DI/DO/RS485/RS232/4-20mA/0-10V/PT100 RTD Input
- Available cellular & LoRaWAN® version
- 16 customized trigger rules
- Desk, wall & DIN mounting



UC50x Series LoRaWAN® Controller

- Rich industrial interfaces: RS232, RS485, GPIO, Analog input
- Flexible power options
 - Powered by battery with solar panel
 - NFC for configuring power options

UC51x Series LoRaWAN® Solenoid Valve Controller

- 2 outputs for connecting DC latching solenoid valve
- 2 pulse interfaces for connecting water meter
- Time-based control
- Volume-based control

5G CPE

- Fast 5G connectivity
- Dual band Wi-Fi
- Outstanding performance
- Flexible installation



Remote Management Platform

Milesight IoT Cloud

Milesight IoT Cloud provides unparalleled levels of vertical integration with Milesight LoRaWAN® devices.



01



Transform real-time and historical data into drag-and-drop widgets on dashboard



02

Control access and monitor projects from anywhere

Email and mobile push notifications based on triggered events

Built on AWS to provide confidential and reliable infrastructure for your data

03



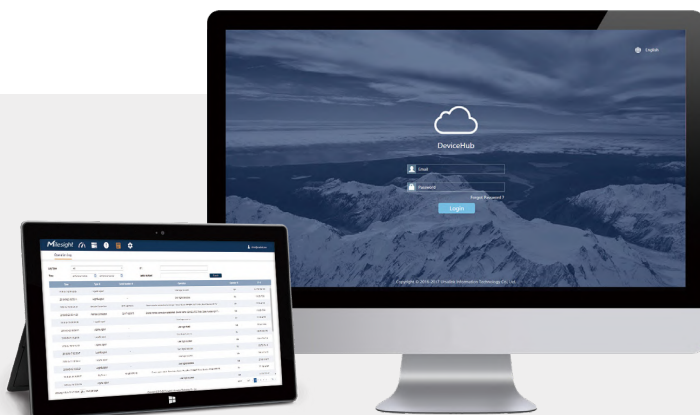
04

 Get the **Free Trial** now and begin your data-driven future.



DeviceHub

Milesight DeviceHub is a platform which is designed to provide a high-efficiency, low maintenance solution to easily deploy Milesight IoT devices (especially industrial cellular routers) across multiple locations, reducing complexity and increasing productivity.



- Large scale deployment
- Real-time monitoring
- Comprehensive report

MilesightVPN

MilesightVPN is a web-based VPN monitoring and management platform.

- Intuitive Web GUI
- Connection status overview
- Easy to setup VPN tunnel
- Access to remote devices securely
- Support up to 1000+ connected devices



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