Enable All-round Connectivity

D2D

AIoT

5G

Milesight

Smart Agriculture

Smart Office

Smart City

VNET

LoRaWAN

Contents

LoRaWAN® Gateway

UG65 Semi-Industrial Gateway/UG67 Outdoor Gateway

Embedded Network Server

- Gateway Fleet for receiving data from multiple Milesight gateways
- Real-time data collection & processing
- Save investment of external network service

Industrial Design

- IP65/IP67 waterproof
- PoE powered device
- -40°C to 70°C operating temperature

Powerful LoRa Capabilities

- Semtech SX1302 LoRa chip
- LoRaWAN® Class A/Class B/Class C
- Up to 15 kilometers range
- Support CN470/EU868/US915/AS923 and more

Advanced Gateway Features

- Node-RED development tool for codeless visual programming
- Multicast for sending downlink messages to a group of end-devices
- Noise Analyzer to improve network quality and deployment efficiency

Specifications

Model		UG65	UG67
Product Image			
LoRaWAN	Channel	8	
	Frequency	CN470/RU864/IN865/EU868/US915/AU915/KR920/AS923-1&2&3&4	
	Sensitivity	-140dBm Sensitivity @292bps	
	Output Power	27 dBm Max	
	Protocol	V1.0/V1.0.2, Class A/Class B/Class C	
Hardware	Processor	Quad-core 1.5 GHz, 64-bit ARM Cortex-A53	
	Memory	512 MB DDR4	
	Flash	8 GB eMMC (pSLC mode)	
	Power Supply	1. 9-24 VDC Jack Connector 2. 1 × 802.3af PoE input	1. 12 VDC with M12 Connector 2. 1 × 802.3af PoE input
	Ingress Protection	IP65	IP67
Connectivity	Cellular (Optional)	1 x SIM Slot, Support Global GSM/3G/4G LTE Frequency Bands	
	Wi-Fi	IEEE 802.11b/g/n	
	Ethernet	1 x 10/100/1000 Mbps	
	GPS	/	Yes

Mini LoRaWAN® Gateway

○ UG63

Ambience Monitoring Sensor

3in1

○ AM103
○ AM103L

This UG63 Mini LoRaWAN® Gateway is delicatedly designed with a mini size and aesthetic appearance. Apart from standalone deployment, with strong and reliable performance as well as many advanced features like LBT, it fits the LoRaWAN® network coverage for indoor blind spots.

Gateway Fleet
Transmit received data to one controller gateway

Blind Spot Coverage
Perfect for covering blind spot of LoRaWAN® network

Listen Before Talk
Enable multiple transmitting nodes to share a same channel

Massive Connectivity
Adopting Semtech SX1302 LoRa chip, UG63 supports connection with more than 2000 LoRaWAN® nodes

Specifications		
LoRaWAN	Channel	8
	Frequency	CN470/RU864/IN865/EU868/US915/AU915/KR920/AS923
	Sensitivity	-140dBm Sensitivity @292bps
	Output Power	27 dBm Max
	Protocol	V1.0/V1.0.2, Class A/Class B/Class C
Hardware	Processor	528 MHz, ARM Cortex-A7
	Memory	256 MB DDR4 RAM
	Flash	4 GB eMMC
	Power Supply	1 × 802.3af standard PoE input 5V by Type-C Port
	Ingress Protection	IP30
Connectivity	Ethernet	1 x 10/100 Mbps

Milesight AM103/AM103L measures 3 key factors including carbon dioxide, temperature, and humidity. The tiny, eye-catching size and long battery life make it worthy for indoor ambience monitoring in offices, schools, hotels, etc.

3 Sensors in 1
Built-in high accuracy temperature, humidity and CO_2 sensor

Screen Display
Visualize sensor data, and CO_2 level with emoticon indication

Easy Configuration
Configure and switch the device wirelessly via NFC technology

Long Battery Life
2 replaceable batteries (5400 mAh) can be used for 3 ~ 4 years

Specifications			
Model		AM103	AM103L
Hardware	Screen	2.13-Inch Black & White E-Ink Screen	N/A
	LED	1 × Traffic Light Status Indicator	
	Configuration	Mobile App via NFC	
	Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923-1&2&3&4	
	Work Mode	OTAA/ABP, Class A	
	Power Supply	2 × 2700 mAh ER14505 Li-SOCl₂ Batteries	
Sensors	Temperature Range	-20°C - 70°C	
	Temperature Accuracy	0 to 70°C (±0.3°C), -20 to 0°C (±0.6°C)	
	Humidity Range	0% - 100% RH	
	Humidity Accuracy	10% to 90% RH (±3%), below 10% and above 90% RH (±5%)	
	CO₂ Range	400 - 5000 ppm	
	CO₂ Accuracy	± (30 ppm + 3% of reading)	

Ambience Monitoring Sensor

7in1

- Temperature & Humidity
- Activity Level (PIR)
- Light
- Barometric Pressure
- TVOC
- CO₂

○ AM107
○ AM104

Milesight AM107/AM104 consists of multiple smart sensors that are built specifically for indoor air quality monitoring. It has a clean and modern design that makes it a perfect match for indoor scenarios.

Clean and Modern Design
Bring "less is more" concept to indoor or HVAC environment

Multiple Sensors in One
Temperature, humidity, activity level (PIR), light, CO_2, TVOC, barometric pressure

Configure with One Touch
NFC technology enables easy configuration and on/off operation

Better Readability than LCD Monitor
E-ink technology offers high display clarity and sunlight visibility

Low Power Consumption
AA alkaline batteries can last for 1 year and ensure low maintenance cost

Smart Screen Mode
Screen will stop updating data if no motion is detected continuously for 20 minutes, which will save more power and prolong the use life of batteries.

Compliant with ToolBox & Milesight IoT Cloud
Manage and configure your sensor easily

Model		AM107	AM104
Hardware	Frequency	CN470/RU864/IN865/EU868/US915/AU915/KR920/AS923	
	Tx Power	19dBm (470 MHz) / 16dBm (868 MHz) / 20dBm (915 MHz)	
	Sensitivity	-137dBm @300bps	
	Mode	OTAA/ABP, Class A	
	Power Supply	2 × AA alkaline batteries/Powered via Type C port	
	Battery Lifetime	Around 1 Year	Around 1.5 Years
Sensors	Temperature Range	-20°C to + 70°C	
	Temperature Accuracy	±0.3°C (0 ~ 70°C), ±0.6°C (-20 ~ 0°C)	
	Humidity Range	0% to 100% RH	
	Humidity Accuracy	±3% RH (10 ~ 90%), ±5% RH (0 ~ 10%, 90 ~ 100%)	
	PIR Detection Area	94° Horizontal, 82° Vertical	
	PIR Detection Distance	5 m	
	Light Range	60000 lux (Visible + IR, IR)	
	Light Accuracy	±30%	
	CO₂ Range	400 ~ 5000 ppm	
	CO₂ Accuracy	± (30 ppm + 3% of reading)	
	TVOC Range	0 ~ 60000 ppb (total VOC)	
	TVOC Accuracy	±15% of reading	N/A
	TVOC Long-term Stability	1.3% accuracy drift per year	
	Barometric Pressure Range	300 ~ 1100 hPa (-40 ~ 85°C)	
	Barometric Pressure Accuracy	±1 hPa	

LoRaWAN® Ambience Monitoring Sensor

9 in 1

- AM319
- AM307

Temperature	TVOC	PM2.5 & PM10	
Humidity	Barometric Pressure	HCHO	
PIR	CO_2	O_3	
Light			

Milesight AM307/AM319 is an all-round ambience monitoring device designed for indoor air quality monitoring. It collects various indoor ambience conditions through 9 built-in sensors, and delivers the data to both mobile App and its 4.2 inch E-ink screen, to help you to understand the indoor comfort & health level visually.
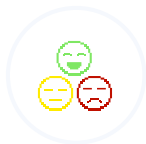
Emoticon Indication
Indicating comfort level by emoticon on screen

Traffic Light Indicator
Presenting ambience conditions in a tri-color LED

Better Screen Display
Light & dark color theme with three display styles

Anti-Theft Design
Preventing the device being taken away thoughtlessly

Specifications			
	Model	AM319	AM307
Hardware	Screen	4.2 inch E-ink	
	LED & Buzzer	1 × Traffic Light Status Indicator, 1 × Buzzer	
	Configuration	NFC (mobile App & NFC reader with PC), USB Type-C port	
	Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923-1&2&3&4	
	Work Mode	OTAA/ABP, Class C	OTAA/ABP, Class A
	Power Supply	5V/1A via Type-C Port	4 × 2700 mAh ER14505 Li-$SOCl_2$ Batteries
Sensors	Temperature Range	-40°C - 85°C	
	Temperature Accuracy	±1°C	
	Humidity Range	0% - 100% RH	
	Humidity Accuracy	±3%	
	PIR Detection Area	80 ° Horizontal, 55 ° Vertical	
	PIR Detection Distance	5 m	
	Light Range	0-60000 Lux (Determine as 6 levels, 0-5)	
	TVOC Range	0-500 (IAQ Index)	
	TVOC Accuracy	±15%	
	Barometric Pressure Range	300 - 1100 hPa (-40°C - 85°C)	
	Barometric Pressure Accuracy	±0.6 hPa	
	CO_2 Range	400 - 5000 ppm	400 - 2000 ppm
	CO_2 Accuracy	± (30 ppm + 3% of reading)	± (50 ppm + 5% of reading)
	PM2.5 & PM10 Range	0 - 1000 μg/m^3	
	PM2.5 & PM10 Accuracy	0-100 (±10μg/m^3), 100-1000 (±10 %)	
	HCHO* Range	0 - 6 mg/m^3	/
	HCHO* Accuracy	±10%	
	O_3* Range	0 - 10 ppm	
	O_3* Accuracy	±5% FS	

* This function is valid in the measurement of either HCHO or O_3.

Environment Monitoring Sensor

Featuring a simple yet modern design, compact size and waterproof capability, EM300 series are ideal to fit into the indoor or outdoor environment.

Configure with One Touch
NFC technology enables easy configuration and on/off operation

Low Power Consumption
Dual batteries (one battery by default) can last for up to 10 years

Compliant with ToolBox & Milesight IoT Cloud
Manage and configure your sensor easily

Compact & Waterproof
Small size with an IP67 rating enclosure

LoRaWAN® Wireless
Up to 15 km wireless communication range

EM300-TH Temperature & Humidity Sensor is a sensor suitable for indoor and outdoor temperature and humidity monitoring. It can be widely used in office areas, greenhouses, houses and other environments.

Specifications	
Temperature	±0.3°C (0 ~ 70°C), ±0.6°C (-30 ~ 0°C)
Humidity	±3% RH (10 ~ 90%), ±5% RH (0 ~ 10%, 90 ~ 100%)
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923
Power Supply	Easily replaceable battery with up to 10 years service life
Operating Temperature	-30 ~ 70 ℃
Ingress Protection	IP67
Dimensions	88.5 x 85.3 x 27 mm (3.48 x 3.36 x 1.06 in)

Office   Greenhouse   Residence

Leak Detection Sensor
Preventing assets away from water damage

Magnetic Contact Switch
Door/window status monitoring

EM300-SLD/ZLD offers reliable performance to detect presence of water or other liquids by remotely alerting you the potential water leak before the issue becomes too serious, thus helping to prevent water damage.

Model	EM300-SLD	EM300-ZLD
Sensor Type	Probe	Rope
Cable Length	1.5 m	3 m
Temperature	±0.3°C (0 ~ 70°C), ±0.6°C (-30 ~ 0°C)	
Humidity	±3% RH (10 ~ 90%), ±5% RH (0 ~ 10%, 90 ~ 100%)	
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923	
Power Supply	Easily replaceable battery with up to 10 years service life	
Ingress Protection	IP67	
Operating Temperature	-30 ~ 70 °C	
Dimensions	105.6 x 85.3 x 27 mm (4.16 x 3.36 x 1.06 in)	

Hospital   Warehouse   Server Room

EM300-MCS can be mounted to any door or window to detect an opening or closing event. It adds physical security monitoring to your location by alarming for intrusion or unauthorized entry.

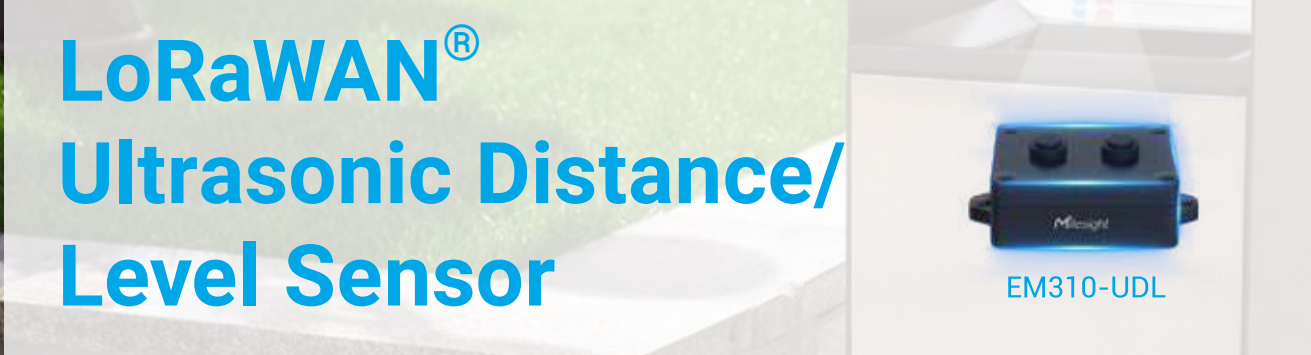| Specifications	
Sensing Distance	20 ~ 30 mm
Cable Length	1.5 m
Temperature	±0.3°C (0 ~ 70°C), ±0.6°C (-20 ~ 0°C)
Humidity	±3% RH (10 ~ 90%), ±5% RH (0 ~ 10%, 90 ~ 100%)
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923
Power Supply	Easily replaceable battery with up to 10 years service life
Ingress Protection	IP67
Operating Temperature	-30 ~ 70 °C
Dimensions	Transceiver: 105.6 x 85.3 x 27 mm (4.16 x 3.36 x 1.06 in) Magnet: 32 x 15 x 8 mm (1.25 x 0.59 x 0.31 in)

Fire Door   Library   Residence

LoRaWAN® Ultrasonic Distance/ Level Sensor

EM310-UDL

LoRaWAN® Tilt Sensor

EM310-TILT

Milesight EM310-UDL is an ultrasonic sensor featuring short blind zone and broad range distance measurement. It also has a 3-axis accelerometer to detect the device motion when it is moved or fell down, which is ideal for monitoring of solid or liquid level of containers like waste bin.

Specifications	
Ultrasonic Sensor	Range: 3 - 450 cm, 60° Accuracy: ± (1 + 0.3% × S), S = distance
Accelerometer	Normal/Tilt (device position detection)
Configuration	Mobile App via NFC
LoRaWAN® Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923
Power Supply	2 × 3500 mAh ER17505 Li-SOCl$_2$ Batteries
Battery Life	7000 mAh battery to use for over 10 years with around 20 triggers per day
Ingress Protection	IP67
Operating Temperature	-15°C to +60°C

Waste Bin   Manhole Cover   Parking Lot

EM310-TILT is a LoRaWAN® tilt sensor mainly for angle measurement and asset movement detection. With a compact size and 3-axis accelerometer, EM310-TILT can also detect the movement based on angle changes and send threshold alarms.

Specifications	
Axis	X, Y, Z
Range	- 90° ~ +90°
Accuracy	± 1°
Resolution	0.01°
Configuration	Mobile App via NFC
LoRaWAN® Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Power Supply	Built-in 7000 mAh battery to use for over 5 years
Ingress Protection	IP67
Operating Temperature	-20°C to +60°C

Bridge Piers Monitoring   Utility Pole Angles   Smart Manhole

Outdoor Environment Monitoring Sensor

The EM500 Series are LoRaWAN® sensors designed for different professional applications. These sensors adopt a high ingress protection rating enclosure for use in the most challenging outdoor environmental conditions, and are powered by built-in battery for years-long use life.

High IP Rating Enclosure
IP rated as "dust tight" and protected against heavy fog or powerful jets of water

Rich Installations Available
Pole mounting, wall mounting, DIN rail mounting

Configure with One Touch
NFC technology enables easy configuration and on/off operation

Multiple Applications in Vertical Markets
Soil monitoring, water management, temperature & humidity measurement, etc.

Long Battery Use Life
19000 mAh replaceable battery ensures low maintenance cost

Compliant with ToolBox Milesight IoT Cloud
Manage and configure your sensor easily

Soil Moisture, Temperature and Electrical Conductivity Sensor
EM500-SMTC/SMT

Industrial Temperature Sensor
EM500-PT100

Light Sensor
EM500-LGT

Ultrasonic Distance/Level Sensor
EM500-UDL

Pipe Pressure Sensor
EM500-PP

Carbon Dioxide Sensor (4 in 1)
EM500-CO$_2$

Submersible Water Level Sensor
EM500-SWL

Soil Moisture, Temperature and Electrical Conductivity Sensor

- Research-grade accuracy in multiple soil media
- Easy installation into undisturbed soil
- Rapid monitoring of growing conditions

Light Sensor ☀

- Measuring ranges from 0 to 100, 000 lux
- Fast 1-second response
- 10-year battery life with low maintenance cost
- Accurately detect any light changes

EM500-SMTC/SMT provides an external probe for receiving accurate and instantaneous information on soil moisture content, temperature, and electrical conductivity. It is an important tool for soil condition monitoring.

Model		EM500-SMTC	EM500-SMT
Moisture	Range	0 ~100% RH	0 ~ 100% RH
	Accuracy	±2% (0 ~ 50%), ±3% (50 ~ 100%)	±2% RH
	Resolution	0.01% RH	0.01% RH
Temperature	Range	-40 ~ 80°C	/
	Accuracy	±0.5°C	
	Resolution	0.1°C	
Electrical Conductivity	Range	0 ~ 20000 µS/cm	/
	Accuracy	±3% (0 ~ 10000 µS/cm), ±5% (10000 ~ 20000 µS/cm)	
	Resolution	1 µs/cm	
Frequency		CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923	
Power Supply		Built-in 19000 mAh high-capacity battery can be used for 10 years	
Ingress Protection		Transceiver: IP67 Sensor: IP67	
Operating Temperature		-30 ~ 70°C (Transceiver), -40 ~ 85°C (Sensor)	-30 ~ 70°C (Transceiver), -40 ~ 60°C (Sensor)

Grassland

Farmland

Greenhouse

EM500-LGT can accurately monitor the changes in the surrounding light intensity. It is suitable for light measurement and research in agriculture Land, forestry, greenhouse, horticulture, breeding, industrial workshops, warehouses, urban lighting, and buildings.

Specifications	
Range	0 ~ 100000 lux
Accuracy	±3% (Acquired Value)
Resolution	1 lux
Cable length	3 m
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923
Power Supply	Built-in 19000 mAh high-capacity battery can be used for 10 years
Ingress Protection	Transceiver: IP67 Sensor: IP65
Operating Temperature	-30 ~ 70°C (Transceiver), -30 ~ 60°C (Sensor)

Agriculture Land

Forestry

Greenhouse Cultivation

Pipe Pressure Sensor

- No leakage danger
- Shock-resistant and vibration-resistant
- Measuring accuracy is less than ±0.5% FS
- Temperature compensation for correction of temperature changes

Submersible Water Level Sensor

- Customizable measuring range up to 200 m
- Submersible pressure sensor not affected by foam, wind, or rain
- IP67 full sealed plastic waterproof design
  (Transceiver is not included)
- Measuring medium: water
  (Customizable for oil and other non-corrosive media)

EM500-PP is designed for the pressure monitoring of tank level or leakage in pipes.

Specifications	
Range	0 - 1600 kPa (16 Bar)
Accuracy	±0.5% FS
Resolution	1 kPa (0.01 Bar)
Pressure Type	Gauge Pressure
Overload	150% FS
Long-term Stability	±0.3% FS/year
Process Connection	G 1/2" Male
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923
Power Supply	Built-in 19000 mAh high-capacity battery can be used for 10 years
Ingress Protection	Transceiver: IP67 Sensor: IP65
Operating Temperature	-30 ~ 70°C (Transceiver), -10 ～ 60°C (Sensor)

EM500-SWL is designed to measure the tank level or open water applications while fully submerged in liquid. It is robust and sealed to prevent corrosion and failure.

Specifications	
Range	0 ~ 3m/5m/10m (H_2O), Customizable up to 200 m and for other liquids
Accuracy	±0.5% FS
Resolution	0.01 m
Pressure Type	Gauge Pressure
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923
Power Supply	Built-in 19000 mAh high-capacity battery can be used for 10 years
Ingress Protection	Transceiver: IP67 Sensor: IP68
Operating Temperature	-30 ~ 70°C (Transceiver), -10 ～ 60 (Sensor)

Constant Water Supply

Hydraulic Equipment

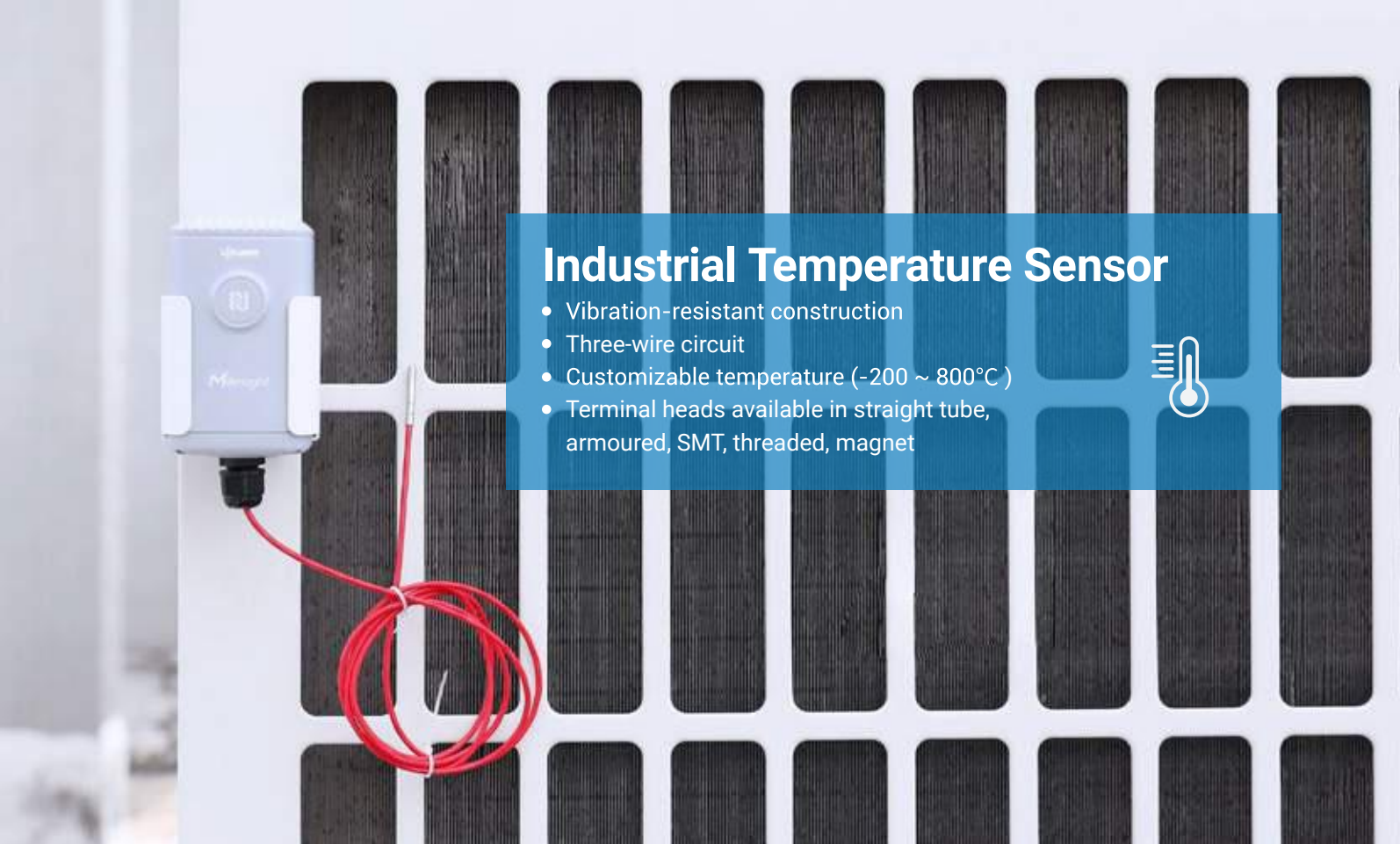**Barometric Pressure Detection**

Reservoir

Tank

Lake

Industrial Temperature Sensor
- Vibration-resistant construction
- Three-wire circuit
- Customizable temperature (-200 ~ 800℃)
- Terminal heads available in straight tube, armoured, SMT, threaded, magnet

CO₂ Sensor (4 in 1)
- Measuring ranges from 400 ppm to 5000 ppm
- Easy installation in any enclosed areas or outdoor environment
- 4 in 1 (CO_2, barometric pressure, humidity, temperature)

EM500-PT100 equips a highly accurate temperature sensor PT100. The platinum resistance temperature detector offers the most stable and precise temperature measurement from -200 to 800°C.

Specifications	
Range	T050: -200 °C to +50 °C T200: -50 °C to +200 °C T500: -50 °C to +500 °C T800: -50 °C to +800 °C (Customizable from -200 °C to +800 °C)
Accuracy	±0.5°C
Resolution	0.1°C
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923
Power Supply	Built-in 19000 mAh high-capacity battery can be used for 10 years
Ingress Protection	Transceiver: IP67 Sensor: IP68 (T200) / IP30 (T050) / IP30 (T500) / IP30 (T800)
Operating Temperature	-30 ~ 70°C (Transceiver)

Industrial Process   **Cold Chain**   **Laboratory**

EM500-CO₂ is designed for the application where knowing CO_2 level is important like greenhouse, building ventilation, fruit and vegetable storage. It also supports temperature, humidity and barometric pressure measurement.

Specifications			
Sensor Specs	Range	Accuracy (0°C-50℃)	Resolution
CO_2	400 ~ 5000 ppm	± (30 ppm + 3% of reading)	1 ppm
Barometric Pressure	300 ~ 1100 hPa (-40 ~ 85°C)	±1 hPa	0.1 hPa
Temperature	-30°C ~ 70°C	±0.6°C (-40 ~ 0°C), ±0.3°C (0 ~ 70°C)	0.1°C
Humidity	0 ~ 100% RH	±3% RH (10 ~ 90%), ±5% RH (0 ~ 10%, 90 ~ 100%)	0.5% RH
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923		
Power Supply	Built-in 19000 mAh high-capacity battery can be used for 10 years		
Ingress Protection	IP65		
Operating Temperature	-30 ~ 70°C		

Smart City   **Livestock Farming**   **Forest Fire Monitoring**

Ultrasonic Distance/Level Sensor

- Measuring ranges from 0.3 m to 10 m
- Measurements in very small containers or openings
- Suitable for measuring chemical mediums
- Non-contact detection for any corrosive liquid chemicals or combustibles

CoWork Series

EM500-UDL provides highly accurate distance measurement for a variety of applications in harsh environments like flood monitoring, wastewater management, fill level monitoring in grains or fertilizer. The measurement is based on ultrasonic waves transmitted and reflected back from nearby objects.

Specifications	
Range	W050: 0.3 ~ 5 m W100: 0.5 ~ 10 m
Accuracy	±1% FS
Resolution	1 mm
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923
Power Supply	Built-in 19000 mAh high-capacity battery can be used for 10 years
Ingress Protection	IP67
Operating Temperature	-30 ~ 65°C

Water Treatment

Snow Depth

Grain Silo

Explore the Potential of Workspace

Milesight CoWork Series is designed for transforming the workspace into a smart office to help boost productivity, improve collaboration, reduce energy consumption and enhance security. It aims to build a workspace that works for the present and explore the potential of the future of work.

Better Use of Workspace

Reduce Cost

Boost Productivity

Improve Collaboration

LoRaWAN® Smart Button

CoWork Series

WS101

LoRaWAN® AI Workplace Sensor

CoWork Series

VS121

The WS101 LoRaWAN smart button is an ultra-tiny device that allows you to remotely control appliances, triggering a scene or calling for help as whatever and wherever you need it.

Milesight VS121 is an AI powered workplace sensor featuring LoRaWAN® technology. It complies with GDPR and uses anonymous people counting data to help you see and understand your workspace utilization.

Single/Double/Long Press Mode

Buzzer & LED Light for Status Indication

Easy Configuration via NFC

Over 5 Years Battery Life

Anonymous Detection
No facial detection technology being applied nor PII collected

High Recognition Rate
95% recognition rate to determine objects as human or non-human

Large Detection Area
Covering up to 5 meters radius at 3 meters height (78 m^2 in total)

Custom Detection Region
Define 12 custom mapped regions as detection/non-detection region

Specifications	
Button	1 × Action Button (white and red optional)
Press Mode	Single press, double press, long press
Configuration	Mobile App via NFC
LoRaWAN® Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923
Power Supply	Built-in 1650 mAh battery to use for over 5 years with around 10 presses per day
Ingress Protection	IP30
Operating Temperature	-30°C to +60°C

Specifications	
Field of View	190°Horizontal, 112°Vertical
Recognition Rate	>95%
Wi-Fi	IEEE 802.11b/g/n, as AP for configuration only
LoRaWAN® Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923
Power Supply	5V/1.5A by Type-C Port
Ingress Protection	IP30
Operating Temperature	-5 ~ +55°C

LoRaWAN®
Smart Scene Panel

CoWork Series

WS136 & WS156

Customizable Display
Customizable display contents to match scenes

One-to-Many Control
Control multiple device simultaneously with one command

Milesight D2D Featuring LoRa
Communication among Milesight D2D nodes without gateway within 1 second

Dual Protocol Operation
Each button can work in Milesight D2D/LoRaWAN® separately

Specifications		
Model	WS156	WS136
Display	2.9 Inch E-Ink Screen	PVC Sticker
Scene Button	6 × Button with Backlight	
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923	
Configuration	Mobile App via NFC	
Dimensions	86 × 86 × 14 mm (3.39 × 3.39 × 0.55 in)	
Power Supply	1180 mAh battery to use for around 3 years with 20 presses per day	
Operating Temperature	-10°C to + 50°C (E-Ink Screen: 0°C - 50°C)	

LoRaWAN®
Sound Level Sensor

CoWork Series

WS302

Milesight WS302 Sound Level Sensor can not only measure noise levels and generate various values via LoRaWAN® network, but also supports multiple weighting measurements for different application scenarios.

Accurate Sound Level Measurement
- Measuring Range: 30~120 dBA/35 to 120 dBC
- Accuracy: ± 3 dB
- Resolution: 0.1 dB
- Frequency Weighting: A, C and fast time weighting

Green/Red LED Indicator
- Equipped with an LED indicator to indicate threshold alarms

Easy Configuration (Via NFC)
- Configure device easily and wirelessly.

4 Years Battery Life
- 2 × 2700 mAh ER14505 Li-SOCl2 Replaceable Batteries

Specifications	
Range	30 dBA to 120 dBA, 35 dBC to 120 dBC
Accuracy	± 3 dB
Resolution	0.1 dB
Frequency Range	30 Hz to 7 kHz
Frequency Weighting	A and C Weighting (Software Switchable)
Time Weighting	Fast time weighting
Measurement Unit	SPL Actual, Leq, Lmax
Configuration	Mobile App via NFC
LoRaWAN Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Power Supply	Built-in 5400 mAh battery to use for over 4 years
Ingress Protection	IP30
Operating Temperature	-20°C to +60°C

LoRaWAN® Magnetic Contact Switch

CoWork Series

WS301

The WS301 is a 100% wire-free magnetic contact switch. It can be easily installed on a door or window to detect the opening or closing event, and report alarms over the LoRaWAN ® network. The minimal magnet is placed inside the portable part, while the sensor is inside the fixed part on door, window or other object.

Easy Installation
Double sided tape/Screw

LED Indicator
Open/close, tamper and low battery alarm

NFC Enabled
Configure device easily and wirelessly

5-Year Battery Life
1200 mAh replaceable battery

Tamper Detection
Detect any attempt of tamper and report

Milesight IoT Cloud
Compliant with Milesight IoT Cloud

Specifications	
Detection Distance	15-20 mm
Button	1 × Power Button (Internal), 1 × Tampering Button
Power Supply	1 × 1200 mAh ER14250 Li-SOCl$_2$ Battery
Dimensions	Sensor: 50.5 × 31 × 18.5 mm (1.99 × 1.22 × 0.73 in) Magnet: 30 × 13.5 × 10 mm (1.18 × 0.53 × 0.39 in)
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923
Ingress Protection	IP30
Operating Temperature	-20 ~ 60°C

LoRaWAN® PIR & Light Sensor

CoWork Series

WS202

Combined the PIR motion detection technology and brightness measurement, Milesight WS202 can easily determine whether an indoor space is being used by human or not, thus providing reliable support for automatic lighting control system.

Ultrawide Range Detection
- 120° Horizontal
- 100° Vertical
- Up to 8 m distance

Smart Brightness Measurement
- Measurement from 1 to 60000 lux
- Custom Bright/Dark conditions threshold

Specifications	
PIR Sensor	120°Horizontal, 100°Vertical Maximum 8 m distance
Light Sensor	1 to 60000 lux (Determine as Bright or Dark according to custom threshold)
Configuration	Mobile App via NFC
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923
Power Supply	Built-in 1650 mAh battery to use for around 5 years with 30 triggers per day
Ingress Protection	IP30
Operating Temperature	-30°C to +60°C

LoRaWAN® Wall Switch

WS50x

LoRaWAN® Smart Portable Socket

WS52x

WS50x is a smart LoRaWAN® wall switch for the local and remote control of lights and electrical appliances. It adopts two standard sizes for most of international wall switch types, which can replace the traditional wall switches directly.

- Remote & Time-Based ON/OFF
- Power Consumption Measurement
- Milesight D2D Featuring LoRa
- Easy Configuration (Via NFC)

Specifications	
Technology	LoRaWAN®, Milesight D2D
Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Switches	1-Gang/2-Gang (Optional)
Circuit Type	3-Wire
Switch Control	Local Press or Remote Control
Advanced Features	Schedule Switch, Switch Lock, Overcurrent Protection, Multicast, Milesight D2D Controller, Milesight D2D Agent
Configuration	Mobile App via NFC
LoRaWAN® Frequency	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Dimensions	86 Type: 86 × 86 × 40 mm (3.39 × 3.39 × 1.57 in) 120 Type: 118 × 72 × 46.9 mm (4.65 × 2.83 × 1.85 in)
Operating Temperature	-20°C to +60°C (-4°F to + 140°F)

WS52x is a LoRaWAN® Smart Portable Socket for the monitoring and control of electronic appliances. It helps the owner to improve the management efficiency, as well as to reduce the manpower & electricity cost with its remote scheduled on/off control capability and power consumption measurement.

- Remote ON/OFF
- Time-Based ON/OFF
- Power Consumption Measurement
- Overload Protection

Specifications	
Socket & Plug Type	Type A, Type B, Type C, Type G, Type I, etc.
Operating Voltage	100~250 VAC, 50~60 Hz
Max Load Capacity	10A ~ 16A (Optional), 250 VAC
Measurement	Voltage (VAC), Current (mA), Power Factor (%), Power (W), Power Consumption (kWh)
Configuration	Mobile App via NFC
LoRaWAN Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923
Ingress Protection	IP30
Operating Temperature	-20°C to +60°C

IoT Controller UC100
Modbus to LoRaWAN® Converter

IoT Controller UC300
Featuring LoRaWAN® & 4G LTE

UC100 is an IoT controller used for remote control and data acquisition from Modbus RS485 devices via LoRaWAN® networks. It can read up to 16 Modbus RTU devices and support Modbus transparent transmission between server and RS485 devices as a Modbus to LoRaWAN® converter.

Modbus RS485 Interface
3.5 mm Terminal Block
Reading Up to 16 Registers

Intelligent Trigger System
Up to 16 commands based on custom trigger conditions & actions.

Easy Local & Remote Configuration
USB Type-C Port - Local Configuring
LoRa Downlink - Remote Configuring

Milesight D2D Featuring LoRa
Communication among Milesight D2D nodes without gateway within 1 second

Specifications		
Wireless Transmission	Technology	LoRaWAN®, Milesight D2D
	Antenna	Internal Antenna
	Frequency	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4
	Mode	OTAA/ABP Class C
	Advanced Feature	Milesight D2D Controller, Milesight D2D Agent
Data Interface	Port	1 × RS485
	Connector	3.5 mm Terminal Block
	Protocol	Modbus RTU, support reading 16 register values
Others	Configuration Port	1 × Type-C
	Reset Button	1 × Reset Button (Internal)
	LED Indicator	1 × System
Physical Characteristics	Operating Temperature	-20°C ~ 60°C (-4°F to + 140°F)
	Dimensions	70 × 45 × 13 mm (2.75 × 1.77 × 0.51 in)

Milesight UC300 IoT controller is specially designed to connect sensors or devices on the fields. Its rich industrial interfaces and backhaul connectivities seamlessly build a bridge between legacy devices and the Internet.

Rich Industrial Interfaces
RS232/RS485/GPIO/Analog Input
(4~20 mA, 0~10 V, PT100 RTD Input)

Intelligent Trigger System
Up to 16 commands based on custom trigger conditions & actions

Autonomous Operation
Executing commands autonomously even when the network is unavailable

Flexible Cloud Integration
Support TCP/UDP/MQTT, compatible with multiple cloud platforms

Specifications		
Wireless Transmission	Technology	LoRaWAN® or 2G/3G/4G (Hardware Optional)
	LoRaWAN®	CN470/RU864/IN865/EU868/US915/AU915/KR920/AS923-1&2&3&4
		OTAA/ABP Class C
	Cellular	1 (Micro SIM-3FF)
		TCP/UDP/MQTT/AWS/ONENet/Milesight IoT Cloud/SMS Application Mode
Data Interfaces	Interface Type	3.5 mm Terminal Block
	GPIO	4 × DI + 2 × DO
	Serial Port	1 × RS232 + 1 × RS485
	Analog Input	2 × 4~20 mA, 2 × 0~10 V, 2 × PT100 RTD Input
Others	Configuration Port	1 × Type-C
	LED Indicators	1 × System, 1 × ACT
	Built-in	Watchdog, Timer
Physical Characteristics	Operating Temperature	-20°C ~ 60°C (-4°F to +140°F)
	Dimensions	93 × 70 × 22 mm (3.66 × 2.76 × 0.87 in)
	Installation	Desktop, Wall Mounting, DIN Rail Mounting
	Power Supply	5-24 VDC

Outdoor LoRaWAN® Controller

Feature-Rich SensorHub for Connecting Sensors

LoRaWAN® Solenoid Valve Controller

Empower Automatic & Precision Irrigation

The UC50x Series LoRaWAN® Controller is a fully integrated and battery-powered LoRaWAN® node with solar panel and multiple communication interfaces for connecting to a wide range of external sensors. With quick installation and easy maintenance, the UC50x Series LoRaWAN® Controller is ideal to work in harsh environments for remote monitoring and collecting data from sensors.

Model	UC501	UC502
Power Supply	Rechargeable 5100 mAh battery with solar panel	Non-rechargeable Built-in 27000 mAh Li-SOCl₂ Battery
Interface 1	2 × analog input 1 × 3.3 V output 1 × 5/9/12 V output switchable	
Interface 2	2 × GPIO 1 × RS485/RS232 switchable 1 × 3.3 V output 1 × 5/9/12 V output switchable	
Dimension	116 x 116 x 45.5 mm (4.56 x 4.56 x 1.79 in)	
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923	
Protocol	OTAA/ABP, Class A & Class C	OTAA/ABP, Class A
Ingress Protection	IP67	
Operating Temperature	-20 ~ 60°C	

The UC51x Series LoRaWAN® Solenoid Valve Controller provides seamless ultra long range access capability for common irrigation valves. With Milesight IoT Cloud, the valve can be remotely controlled from anywhere at any time. Moreover, the embedded pulse counter feature enables the device to monitor flow easily, as well as to make irrigation precisely.

Solenoid Valve Control
- Time-Based Open/Close
- Volume-Based Open/Close

Flow Monitoring
- Connecting up to 2 Meters
- Configurable Volume per Pulse

Long Term Reliability
- IP67 Waterproof
- 3-Year Battery Life

Model	UC511	UC512
Power Supply	Rechargeable 5100 mAh battery with solar panel 1 month battery life without charging (Class C)	Non-rechargeable Replaceable 27000 mAh Li-SOCl2 battery Up to 3-year battery life (Class A)
Solenoid Interface	2 × 2-Wire 12 VDC Latching Solenoid	
Pulse Interface	2 × Pulse Input	
Dimension	116 x 116 x 45.5 mm (4.56 x 4.56 x 1.79 in)	
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923	
Protocol	OTAA/ABP, Class A & Class B & Class C	OTAA/ABP, Class A & Class B
Ingress Protection	IP67	
Operating Temperature	-20 ~ 60°C	

iBox Kit

- **Complete and Convenient for Your Proof of Concept (PoC)**
- **Fast and Flexible to Deploy and Develop within Just a Day**

Milesight iBox kit is designed for users to quickly evaluate the LoRaWAN® technology with testified devices and services. Going comprehensively digital transformation with more certainty, these solutions are the one step before users to scale connected device deployments securely with high reliability.

Starters Enjoy it
Put PoC into action with reduced time & cost.

New Projects Need it
Meet demands of potential & sizzling markets.

Deployers Love it
Easy to deploy and integrate with multiple NS platforms.

IAQ Kit

Indoor Air Quality Solution
Lighting Your Way to Green Air

- AM307 7-in-1 IAQ Sensor
- AM319 9-in-1 IAQ Sensor
- AM103 3-in-1 IAQ Sensor

- AM103L 3-in-1 IAQ Sensor
- UG63 Mini LoRaWAN® Gateway
- Milesight IoT Cloud
  *Pro1 Valid for One Year

CoWork Kit

Smart Office Solution
Workplace Efficiency & Utilization

- VS121 AI Workplace Sensor
- WS156 LoRaWAN® Smart Scene Panel
- UG63 Mini LoRaWAN® Gateway
- WS101 LoRaWAN® Smart Button

- WS202 PIR & Light Sensor
- WS301 Magnetic Contact Switch
- Milesight IoT Cloud
  *Pro1 Valid for One Year

Smart Building Kit

Smart Building Solution
Automated Monitoring and Management

- UC300 IoT Controller
- UG65 LoRaWAN® Gateway
- EM300 Environment Monitoring Sensor
- WS101 LoRaWAN® Smart Button

- WS301 Magnetic Contact Switch
- AM103 Indoor Ambience Monitoring Sensor
- Milesight IoT Cloud
  *Pro1 Valid for One Year

5G Dongle

Embracing the 5G Era with Ease

UF31

5G CPE ⊕ IP67

Ultra Fast and Futuristic

UF51
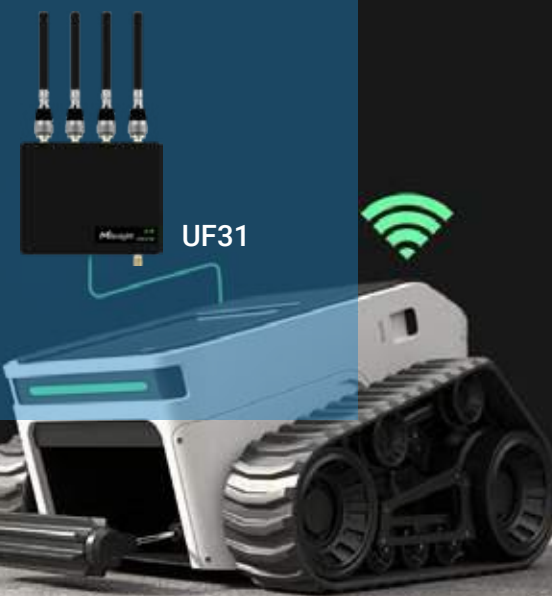
The UF31 5G Dongle is a 5G-to-wired device which provides USB Type-C and Ethernet port for data & power transmission. It is born to offer a 4G to 5G migration solution for mobility, embedded system and the general purpose applications in the most economical and effortless way.

Milesight UF51 5G CPE features aesthetic design and outstanding performance with IP67 rating to delivers fast 5G connectivity, higher bandwidth, and low latency to more businesses.

Ultra Fast 4G/5G Connectivity
- 5G Sub-6/LTE/WCDMA
- 4.13 Gbps Downlink Peak Rate
- 4 × 4 MIMO Downlink
- SA & NSA Modes

Plug & Play Networking
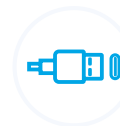- No Configuration Is Required
- No Need for Software Installation

Fast 5G Connectivity
- 2.5 Gbps Downlink
- 4 × 4 MIMO
- NSA & SA Modes

Dual Band Wi-Fi
- 1.733 Gbps Peak Speed
- IEEE 802.11b/g/n/ac
- 2 × 2 MIMO

Pint-Sized in Industrial-Grade Design
- 90 x 72 x 15 mm in Size
- -20 to 50 °C Operating Temperature
- 5 to 24 VDC Wide Input Voltage Range
- Heavy Cast Aluminum Casing

Use at Ease
- Power Supply via USB Type-C or DC
- Network Supply via USB Type-C or Ethernet Port

Outstanding Performance
- Quad-Core Processor
- 512 MB DDR3 RAM
- 8 GB Flash

Flexible Installation
- Desktop Installation
- Wall & Pole Mounting
- Bottom Screw & Magnet Mounting

5G AIoT 4X/12X Pro Bullet Plus Network Camera

Enjoy 5G Speed with AI-capable IoT

Featuring cutting-edge 5G technology, the Milesight 5G AIoT Camera provides a fresh experience of UHD image quality, low latency and fast transmission speed to some scenarios where wiring is inconvenient. Offering IoT technology, AI deep learning, compact structure and more, Milesight 5G AIoT Camera builds a whole new world by combining high-tech with high-performance.

Embedded IoT Technology

- LoRa Outstanding Performance
- Fully Functional LoRaWAN Gateway.
- Built-in Network Server.
- Multiple Frequencies Available

AI Deep Learning for Enhanced Efficiency

- Focused on Human/Vehicle
- AI Video Analytics
- Face Detection
- People Counting

5G Wireless to Level Up the Transmission

- Higher Bandwidth
- Lower Latency
- Higher Mobility
- Higher Scalability

Milesight PoE Switch

Simplify Network Deployment with Power over Ethernet

Milesight PoE switch is a highly-dependable device that transmits data and power simultaneously, which helps to eliminate the need for a separate power supply when you are installing devices with great difficulty to access or without power outlet.

Versatile Ports

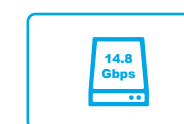With a wide range of PoE ports from 4, 8, 16 to 24 at maximum, and 2 SFP ports

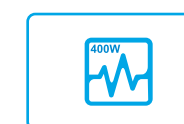| 4-Port PoE Switch	8-Port PoE Switch	16-Port PoE Switch	24-Port PoE Switch
4 × 10/100 Mbps PoE ports + 2 × 100 Mbps uplink ports	8 × 10/100 Mbps PoE ports + 2 × 100 Mbps uplink ports	16 × 10/100 Mbps PoE ports + 2 × 100 Mbps uplink ports	24 × 10/100 Mbps PoE ports + 2 × 100 Mbps uplink ports

Zero Configuration | 250 m Extend Mode | Up to 14.8 Gbps Switching Capacity | Maximum 400 W Power Budget | 4 kV Surge Protection

UR32 Lite *Lite Series*
Industrial Cellular Router

UR32 Lite (UR32L) is a featured industrial router that secures reliable cellular-to-ethernet connectivity for IoT applications, such as kiosk, self-service terminals and process automation equipment. Powered by DeviceHub, a remote management platform, UR32 Lite simplifies your process of setup, mass configuration, maintenance and support.

UR32L

Reliable Connectivity
Major carriers and LTE support make it easy to get connected globally

Remote Management
Gain easy setup, mass configuration, maintenance and support on remote locations

Mighty Mite
Combine compact size with powerful ability to provide high performance and reliability

UR32 & UR35 *Pro Series*
Industrial Cellular Router
Rugged & Programmable 4G Router

UR32   UR35

High Performance
- NXP Industrial Grade Processor
- -40°C to 70°C Operating Temperature
- Support Wi-Fi, GPS, Serial, I/Os and Voice

Low Maintenance & Easy Operation
- User-friendly GUI
- MilesightVPN for Remote Access
- DeviceHub Central Management

Intelligent & Programmable
- Python Programming
- Support Modbus RTU/TCP

Lower Investment
- Affordable Price
- PoE-PSE for Less Wire Connection
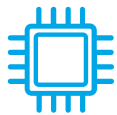- Reduce Time Cost by Remote Management

UR75 High-Performance 5G Industrial Router

Ultra Series

Featuring the latest and fastest cellular technology - 5G, UR75 is not only an intelligent industrial IoT router, but also an unrivaled wireless networking solution.

UR75

Outstanding Performance

- 5G NSA & SA Modes
- Qualcomm Quad-Core Processor
- CAT4/6/12/20 Cellular Modem
  (Optional)

Rich Connectivities

- 2 × 2 MIMO 802.11ac Wi-Fi
- 1 × RS232 + 1 × RS485
- 1 × Digital Input & Output

Edge Intelligence

- Azure IoT Edge
- AWS Greengrass
- Python Programming

Specifications

		UR32L	UR32	UR35	UR75
Interfaces	SIM Slots	1	2		
	Ethernet Ports	2 x 10/100 Mbps		5 x 10/100 Mbps	5 × 10/100/1000 Mbps
	Serial Ports	N/A	1 x RS232 or 1 x RS485	1 x RS232 + 1 x RS485	1 × RS232 + 1 × RS485
	DI/DO	N/A	1 × DI + 1 × DO		
	Voice (Optional)	N/A		1 × FXS (RJ11)	N/A
	Antenna Connectors	1 × Cellular Connector	2 x Cellular Connectors 1 x Wi-Fi/GPS Connector	2 x Cellular Connectors 1 x Wi-Fi Connector 1 x GPS Connector	3 x Cellular Connectors 1 x Cellular/GPS Connector 2 x Wi-Fi Connectors
Network	Cellular	4G CAT4			5G, 4G CAT4/6/9/12/20 (Optional)
	Wi-Fi (Optional)	N/A	IEEE 802.11b/g/n		IEEE 802.11a/b/g/n/ac
	Serial Port	N/A	Transparent (TCP Client/Server, UDP), Modbus Gateway (Modbus RTU to Modbus TCP), Modbus Master		
	Network Protocols	PPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIP v1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QoS, SNTP, Telnet, VLAN, SSH			
	AAA	RADIUS, TACACS+, LDAP, Local Authentication			
	Firewall	URL Filtering/ACL/DMZ/Port Mapping/MAC Binding/SPI/DoS Protection			
	Reliability	VRRP, WAN Fail-over, Dual SIM Backup			
	VPN	OpenVPN, IPsec, PPTP, L2TP, DMVPN, GRE			
Maintenance	Management	Web, CLI, SMS, Watchdog, On-demand Dial Up			
	Multilevel Authority	Multiple Levels of User Authority			
Capabilities	CPU	528 MHz, 32-bit ARM Cortex-A7			716 MHz, Quad-Core ARM Cortex-A7
	Flash	128 MB			8 GB
	Memory	128 MB DDR3			512 MB DDR3
	Built-in	Watchdog			
	GPS (Optional)	N/A	GPS + GLONASS		
	Extended Memory	N/A	1 × Micro SD Card Slot, Up to 128 GB		1 × M.2 NVMe SSD Slot
Hardware	Power Input	9 ~ 48 VDC			
	Power Output (Optional)	2 × 802.3af/at PoE PSE		4 × 802.3af/at PoE PSE	
	Ingress Protection	IP30			
	Housing & Weight	Metal, 246 g (0.54 lb)	Metal, 271 g (0.60 lb)	Metal, 481 g (1.06 lb)	Metal, 525 g (1.16 lb)
	Dimensions	108 x 90 x 26 mm		135 x 100 x 45 mm	135 × 118 × 45 mm
	Mounting	Desktop, Wall or DIN Rail Mounting			
Others	Operating Temperature	-40°C to +70°C (-40°F to +158°F) Reduced cellular performance above 60°C			
	Storage Temperature	-40°C to +85°C (-40°F to +185°F)			
	Relative Humidity	0% to 95% (non-condensing) at 25°C/77°F			
	Certifications	RoHS, CE, FCC	RoHS, CE, FCC, PTCRB, AT&T, RCM, SPDDI, NBTC	RoHS, CE, FCC	

		EU	LTE: B1/B3/B5/B7/B8/B20/B38/B40/B41	3G: B1/B5/B8	GSM: B3/B8
	Frequency Band	AF	LTE: B2/B4/B5/B12/B13/B14/B66/B71	3G: B2/B4/B5	N/A
		AU	LTE: B1/B2/B3/B4/B5/B7/B8/B28/B40	3G: B1/B2/B5/B8	GSM: B2/B3/B5/B8
		500GL	5G NR: N1/N2/N3/N5/N7/N8/N12/N20/N28/N41/ N66/N71/N77/N78/N79	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/ B19/B20/B21(TBD)/B25/B26/B28/B29/B30/B32/B66/B71 LTE TDD: B34/B38/39/B40/B41/B42/B48	

Milesight IoT Cloud

The Milesight IoT Cloud provides unparalleled levels of vertical integration with Milesight LoRaWAN® gateways, sensors and controllers. It visualizes field data and enables user to monitor and control remote assets on an intuitive dashboard.

Visualization

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

Monitoring & Control

Control access and monitor your projects from anywhere

Alerts

Enable email and mobile push notifications based on triggered events

Security & Reliability

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

Connectivity Suite

Applicable to Industrial Cellular Router and LoRaWAN® Gateway

Milesight DeviceHub is a web-based platform that lets you manage all your Milesight routers and gateways from a single location at any time.

The Milesight DeviceHub is able to monitor all critical parameters of remote routers and gateways, perform configuration, upgrade firmware, analyze system log, create graphic reports and more. It helps to improve productivity, reduce costs, and enhance the intelligence of your network and business operations.

MilesightVPN is the core component of Milesight VPN solution. Typically it's hosted on your own server.

Software Requirements

- ✔ OS: Ubuntu 20.04
- ✔ Supports installation package
- ✔ Browser: Chrome, Firefox

Hardware Requirements

Your host hardware must meet the following minimum requirements:

For 500 devices	For 1000 devices
✔ RAM: 16 GB	✔ RAM: 32 GB
✔ Disk: 512 GB	✔ Disk: 1 TB

Milesight IoT Product Naming Convention

Industrial Cellular Router & 5G Series & IoT Controller

UR32 - L 04 EU - G - P - W - RS485
① ② ③ ④ ⑤ ⑥

① Model Name
- UR32L
- UR32
- UR35
- UR75
- UF31
- UF51
- UC300

② Cellular Network Type
- L: 4G LTE
- 5: 5G

③ Modem Manufacturer & Model

④ Operating Region
- EU: EMEA/South Korea/Thailand/India
- AU: Latin America/Australia/New Zealand
- AF: North America FirstNet
- GL: Global

⑤ Function (for routers only)
- G: GPS
- P: PoE
- W: Wi-Fi

⑥ RS485 (for UR32 only)
- Add RS-485 Serial Interface

LoRaWAN® Gateway

UG65 - L 04 EU - 915M - EA
① ② ③ ④ ⑤ ⑥

① Model Name
- UG63
- UG65
- UG67

② Cellular Network Type
- L: 4G LTE

③ Modem Manufacturer & Model

④ Operating Region
- EU: EMEA/South Korea/Thailand/India
- AU: Latin America/Australia/New Zealand
- AF: North America FirstNet

⑤ LoRaWAN® Module
- 470M: CN470
- 868M: RU864/IN865/EU868
- 915M: US915/AU915/KR920/AS923

⑥ External Antenna

LoRaWAN® Sensor

EM500 — UDL 915M
① ② ③

① Model Name
- AM103
- AM103L
- AM104
- AM107
- AM307
- AM319
- EM300
- EM310
- EM500

② Sensor Type
- UDL: Ultrasonic Distance/Level Sensor
- SMTC/SMT: Soil Sensor
- SWL: Submersible Water Level Sensor
- LGT: Light Sensor
- PT100: PT100 Temperature Sensor
- CO₂: CO₂ Sensor
- PP: Pipe Pressure Sensor
- TH: Temperature & Humidity Sensor
- TILT: Tilt Sensor
- MCS: Magnetic Contact Switch Sensor
- SLD: Spot Leak Detection Sensor
- ZLD: Zone Leak Detection Sensor

③ LoRaWAN® Module
- 470M: CN470
- 868M: RU864/IN865/EU868
- 915M: US915/AU915/KR920/AS923

LoRaWAN® Controller

UC511— DI - 915M
① ② ③

① Model Name
- UC100
- UC501
- UC300
- UC502
- UC511
- UC512

② Interface (For UC51x Only)
- Digital Input (Pulse Counter)

③ LoRaWAN® Module
- 470M: CN470
- 868M: RU864/IN865/EU868
- 915M: US915/AU915/KR920/AS923

CoWork Series

LoRaWAN® AI Workplace Sensor

VS 1 2 1 — 915M
① ② ③ ④

① Vision Sensor **② MegaPixel** **③ Sub-series** **④ LoRaWAN® Module**

LoRaWAN® Smart Button

WS 10 1 — 915M
① ② ③

① Workplace Sensor **② Number of Buttons** **③ LoRaWAN® Module**

LoRaWAN® Smart Scene Panel

WS 1 5 6 — 915M
① ② ③ ④

① Workplace Sensor **② Display** **③ Number of Buttons** **④ LoRaWAN® Module**
- 5: E-Ink Screen
- 3: PVC Sticker

LoRaWAN® PIR & Light Sensor

WS 20 2 — 915M
① ② ③

① Workplace Sensor **② Number of Sensors** **③ LoRaWAN® Module**

LoRaWAN® Magnetic Contact Switch

WS 30 1 — 915M
① ② ③

① Workplace Sensor **② Sub- series** **③ LoRaWAN® Module**

LoRaWAN® Sound Level Sensor

WS 30 2 — 915M
① ② ③

① Workplace Sensor **② Sub-series** **③ LoRaWAN® Module**

LoRaWAN® Smart Wall Switch

WS 50 2 — 915M
① ② ③

① Workplace Sensor **② Number of Switches** **③ LoRaWAN® Module**

LoRaWAN® Smart Portable Socket

WS 52 3 — 915M
① ② ③

① Workplace Sensor **② Number of Holes** **③ LoRaWAN® Module**

Instinctively Smart Technology.