Milesight

▪ Better Inside, More in Sight ▪

V1.5

Milesight | www.milesight.com

📞 86-592-5085280

✉ Sales Email: iot.sales@milesight.com

📍 Building C09, Software Park Phase III, Xiamen 361024, Fujian, China

LoRaWAN®   5G   D2D   IoT

Milesight IoT Product Brochure

Product Brochure

LoRaWAN®
Product Catalogue

5G&Router
Catalogue

About Milesight IoT

Milesight is a multi-dimensional sensing products company transforming how the world is perceived and connected, and delivering safety, efficiency, and business insights.

Our mission is to digitalize the world with connected sensors, deliver the most accurate and valuable data, and extract actionable insights with our partners. Together, we are driving real and positive impact for businesses.

Our vision is to continuously drive the society and environment towards a more connected, efficient, and sustainable future.

Milesight Milestone

IoT Era
- Introduced Milesight new brand identity
- Further explored frontiers of IoT and sensing landing

2022-2023

Grand Merger
- Milesight Technology and Milesight IoT became one strong entity
- Introduced 5G technology and AI deep learning

2020

Active Branding
- Increased brand awareness and expanded overseas market scope
- Continuous innovation in advanced technology and expertise

Establishment
- Milesight headquarters was founded
- Started from video surveillance industry

2015-2016

2011

Brand Upgrade
- Inauguration of the new headquarters & 10th Anniversary

2021

2019

2017-2018

Fast Growing
- Built Milesight IoT brand for IoT industry
- Introduced LoRaWAN® technology
- Introduced 4G Cellular Router

Quality & Innovation
- Kept diversifying the product portfolio & functions
- Evolved into unique Milesight brand recognition

2012-2014

High-Performing & Value-Added
- Joined LoRa Alliance to dive into IoT ecosystem
- Established Milesight Chengdu R&D center

Why Milesight

Professional Technology
- Strong IoT know-how
- State-of-the-art IoT technology: 5G, sensing, LoRaWAN®, Milesight D2D, AI

Strong Capabilities
- 56% of employees are working in R&D team
- 15% revenue invested into R&D

Compliance and Associations

LoRaWAN CERTIFIED   CE   FC   RoHS

Flexible Integration
- The Things Industries, ChirpStack, Actility, Senet and many more
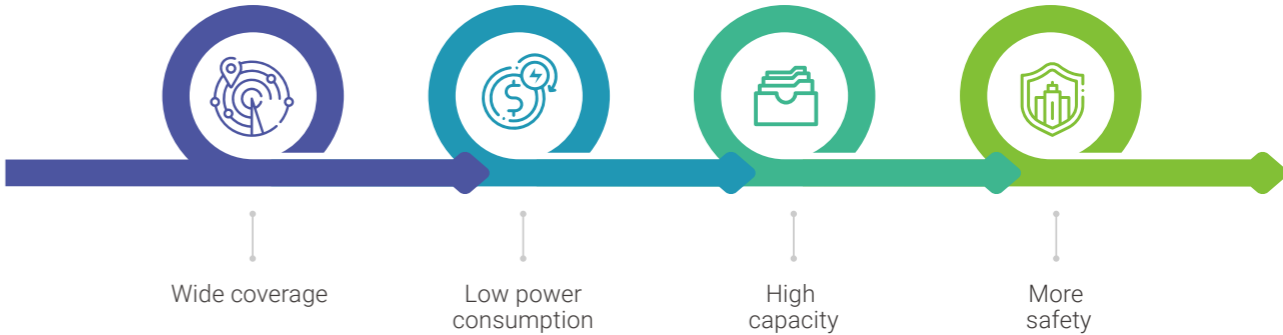- Embrace easy interoperability with other network servers and clouds

Worldwide Coverage
- Provide services over 120+ countries and regions
- Form a healthier and value-added channel management network

WHY MILESIGHT

Why LoRaWAN®

LoRaWAN® is a long range, wide area, and low-power networking protocol.

Wide coverage   Low power consumption   High capacity   More safety

Why Milesight D2D

Milesight D2D is a device to device communications protocol which enables LoRaWAN® based devices to communicate directly with one another when they are in the same group.

* Independently Developed by Milesight

- Low latency (less than 1 second in the same room)
- Low power for battery operation of both sides
- Long range and as secure as LoRaWAN®
- No useless beaconing and difficult synchronization
- Initial feature which coexists with LoRaWAN®
- No additional hardware and LoRaWAN® gateways are needed

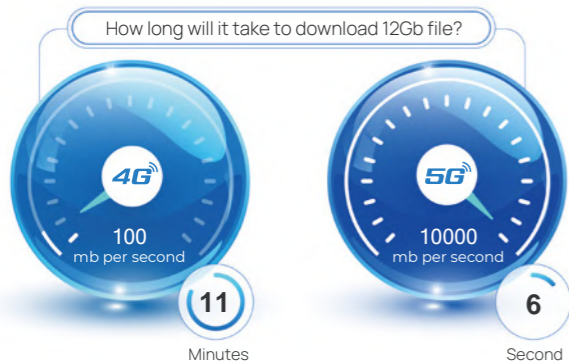Indoor Air Quality   Smart Building   Smart City   Smart Office   Smart Agriculture

Why 5G

How long will it take to download 12Gb file?

4G
100 mb per second
11 Minutes

5G
10000 mb per second
6 Second

5G's ultra high-speed, which is around 100 times faster than 4G, is designed to connect virtually everyone and everything together including machines, objects and devices.

How Can Milesight Empower Business and Industry?

According to the GSMA, 5G accounted for 8 percent of global mobile connections in 2021, with the share considerably lower in most parts of the world. People remain less convinced 5G will change how they connect to the internet and less likely to pay more for 5G connections. Against that backdrop, Milesight is committed to develop the most universal, pragmatic, and innovative products & solutions to those industries who need 4G to 5G migration solution, as well as boost the 5G adoption.

- Accelerate the Fusion of 5G and AI to Help Industries Development
- Replace Expensive Wired Cable with Reliable 5G Connections
- Lower Latency Enables Business Improvements

5G AI

Smart Industry | Smart Building | Smart City | Smart Office | Smart Agriculture

---

SENSING INSIGHT
SENSING THE INFINITY TO DRIVE THE WORLD

Physical World

Sense

Interact

AIoT Understand

Sensing by Products
Ingest the original environment from the sensing devices, whether they are network cameras or environmental sensors.

Insight on Environment
Through IoT technologies, convert the original resource into visualized, automated, and value-added data that is critical to the physical world.

Drive the Digital World
Massive critical information about the environment gathered becomes insights. The outcome, such as decision-making and future planning, tells us how to create a more efficient and intelligent world.

Digital Sensing	Connectivity	Interaction	Application
	LoRaWAN® Gateway	IoT Display	Smart Workplace
	4G/5G Industrial Routers		Smart City
Sensing Nodes	5G Super-Speed Suit	IoT Display	Smart Agriculture

Enable All-around Connectivity

Milesight IoT Gateway

LoRaWAN® · ASHRAE BACnet™ · Wi-Fi HaLow

HL31 Wi-Fi HaLow Gateway

- Support sub-1 GHz spectrum operation for a wider transmission
- Support Wi-Fi HaLow AP mode to connect to Wi-Fi HaLow sensors
- Support both Ethernet & Cellular networks for data transmission
- Provide Wi-Fi 2.4G AP mode for configuration

LoRaWAN® Gateway Overall Features

- ▶ Provide Large Capacity & Faster Data Processing
- ▶ Handle Higher Amount of Traffic with Lower Consumption
- ▶ Handle Massive Sensor Data Efficiently
- ▶ OpenVPN/IPsec/PPTP/L2TP/GRE/DMVPN
- ▶ Embedded Network Server & High Compatibility with Mainstream Networks Including Actility and Senet
- ▶ Support CN470/RU864/IN865/EU868/AU915/ US915/KR920/AS923-1&2&3&4

- ▶ Connecting End Nodes Varies from Class A/B/C
- ▶ Extraordinary Features: Noise Analyzer, Multicast, Gateway Fleet
- ▶ Embedded Node-RED Development Tool (UG56/65/67)
- ▶ Embedded Python SDK (UG56/65/67)
- ▶ Listen Before Talk
- ▶ Support BACnet (UG56/65/67)

SG50 Ultra Low Power Solar LoRaWAN® Gateway

- Rated at IP67 and industrial design
- Built-in rechargeable batteries & Solar panel
- Support typical use for up to 4 days without sunlight
- Support cellular backhaul network
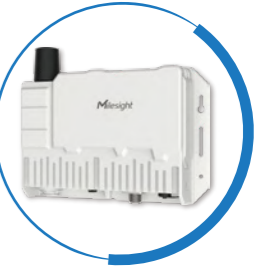
UG63 Mini LoRaWAN® Gateway

- Rated at IP30 and mini-sized
- Desktop, wall or ceiling mounting
- Power supply via 5V type-C port, PoE or 5-12V DC by terminal block
- Backhaul backup: Ethernet and cellular

UG56 Industrial LoRaWAN® Gateway

- Rated at IP30 and industrial design
- Desktop and wall mounting
- 5V Type-C port or PoE
- Backhaul backup: Ethernet, cellular and Wi-Fi

UG65 Semi-Industrial LoRaWAN® Gateway

- Rated at IP65 and semi-industrial grade
- Desktop, wall or pole mounting
- 9-24 VDC Jack connector or PoE
- Backhaul backup: Ethernet, cellular and Wi-Fi

UG67 Outdoor LoRaWAN® Gateway

- Rated at IP67 and industrial design
- Wall or pole mounting
- DC, PoE or solar power supply (optional)
- Backhaul Backup: Ethernet, cellular and Wi-Fi
- Power outage alert
- GPS positioning

See the Unseen to Know Indoor Air Quality

IAQ Sensor

LoRaWAN CERTIFIED™

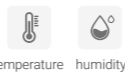
Smart Classroom   Smart Supermarket   Smart Hospital

2-in-1 | AM102/AM102L

- Traffic light indicator
- Anti-theft protection
- Battery life up to 7 years (AM102) / 9 years (AM102L)
- Cost-effective bulk deployment

temperature   humidity

3-in-1 | AM103/AM103L

- Traffic light status indicator
- Anti-theft protection
- Smart screen mode
- Hibernation mode
- Support data storage and retransmission
- 2.13 -inch E-ink screen (AM103)
- Vivid emoticon indication (AM103)
- Light/dark color theme (AM103)
- Multiple display styles (AM103)
- Battery life up to 3 years (AM103) / 4 years (AM103L)

CO₂   temperature   humidity

7-in-1 | AM107

- 2.13 inch E-ink screen
- Visual and intuitive display
- Powered via USB Type-C
- Battery life up to 1 year

light   temperature   humidity   PIR   barometric pressure   CO₂   TVOC
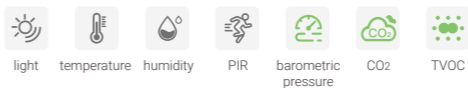
7/8/9-in-1 | AM307(L)/AM308(L)/AM319(L)

- Traffic light indicator & buzzer
- Higher accuracy & Smart screen mode
- Anti-theft protection
- Data retrieval and data retransmission
- 4.2-inch E-ink screen (AM307/AM308/AM319)
- Vivid emoticon indication (AM307/AM308/AM319)
- Powered via USB Type-C(AM319/AM319L)
- Battery life up to 3 years (AM307) / 1 year (AM308)
- Battery life up to 4 years (AM307L) / 1.5 year (AM308L)

CO₂   PIR   barometric pressure   light   temperature
humidity   TVOC   HCHO   O₃   PM2.5 & PM10

100% Anonymous Monitoring

Occupancy & People Counting Series

LoRaWAN® N PoE D2D ToF

VS121 AI Workplace Occupancy Sensor

- LoRaWAN® & PoE version
- High ceiling mount version (7 meters)
- Up to 98% accuracy
- 78 m^2 detection area
- 16 custom detection regions
- Bi-directional people counting
- Smart U-turn detection
- Compliant with GDPR
- 100% Anonymous detection
- Support Milesight D2D featuring LoRa®

VS133 AI ToF People Counting Sensor

- LoRaWAN® & PoE version
- On-board AI algorithm
- 2ND generation ToF technology
- Up to 99.8% accuracy
- Staff detection
- Adults/children differentiation
- Compliant with GDPR
- 100% anonymous detection
- Bi-directional people counting
- Smart U-turn detection
- Support multi-device stitching

VS135 Ultra ToF People Counting Sensor

- Rated at IP65
- High ceiling mount version up to 6.5 meters high is available
- LoRaWAN® & PoE & Wi-Fi HaLow versions
- On-board AI algorithm
- 2ND generation ToF technology
- Up to 99.8% accuracy
- Staff detection
- Adults/children differentiation
- Compliant with GDPR
- Bi-directional people counting
- Smart U-turn detection
- Support multi-device stitching
- Advanced heat map available (VS135-P)

VS330 Cubicle Occupancy Sensor

- Combine PIR & ToF technology
- Up to 99.5% accuracy
- Operate in smart logic
- Compliant with GDPR
- 100% anonymous detection
- Real-time data collection
- Low power consumption
- Conformal coating on PCBA
- Battery life up to 4 years

VS340/VS341 Desk & Seat Occupancy Sensor

- LoRaWAN® wireless deployment
- Up to 98% accuracy
- 100% anonymous detection
- Adjustable detection angle
- Battery life up to 5 years
- Support Milesight D2D featuring LoRa®
- Combine highly sensitive PIR & Thermopile (VS341)

VS350 Passage People Counter

- Dual PIR sensors
- 100% GDPR compliance
- Built-in temperature sensing
- Battery life up to 4 years
- Support local storage of 1,000 historical records
- Anti-theft and over-temperature alarming reports
- Support Milesight D2D featuring LoRa®

Smart Heating and Cooling Controls

WT Series

LoRaWAN® N D2D

WT101 Smart Radiator Thermostat

- LoRaWAN® based for wireless transmission
- Accurate temperature detection and calibration
- Up to 16 heating plans within 1 pre-set date period
- Support child lock to prevent tampering
- Open window detection for smart management
- Fully compatible valve adapters out of the box
- Support integration with BMS systems
- Easy configuration via NFC
- Support Freeze protection

Schools

Modern Buildings

WT201 Smart Thermostat

- LoRaWAN® based for wireless transmission
- 4.2 -inch LCD screen
- 64 independent local scheduling
- 4 customizable temperature control and 3 fan modes
- Compatible with hotel room card systems
- Support child lock to prevent tampering
- Support integration with BMS systems
- Easy configuration via NFC
- Support Milesight D2D featuring LoRa®
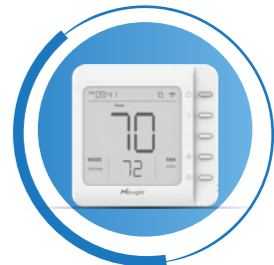
Modern Apartments

Building

WT30x Smart Fan Coil Thermostat

- LoRaWAN® based for wireless transmission
- 86mm hidden box and European 60mm round box available
- Applied in two pipes system, on/off relay or 0-10V valve control, and three-speed fan coil control
- Support pre-set date period with programmable schedules

Monitor Conditions and Optimize Controls

EM300 Series - Environment Monitoring Sensor

LoRaWAN®   N   ☁

Overall Features

▶ Industrial-grade Design
▶ Support Extra Temperature and Humidity Detection (Except UDL&TILT&MLD)
▶ Rated at IP67
▶ Battery Life up to 5 Years
▶ Easy Configuration via NFC

Smart Office

Smart Hotel

EM300-DI Pulse Counter

- Pulse/digital signals & temperature & humidity
- Great partner of old water meters
- IP67 rating for harsh environment
- Data retrieval and data retransmission

EM300-MCS Magnetic Contact Switch Sensor

- Detect the opening or closing event of door & window to ensure security
- Data retrieval and data retransmission

EM300-CL Capacitive Level Sensor

- Liquid level monitoring using non-contact capacitive sensing
- Reliable accuracy with strong anti-interference ability

EM300-TH Temperature & Humidity Sensor

- Temperature & humidity sensor
- ±0.3℃ high accuracy of temperature and ±3% RH of humidity
- Data retrieval and data retransmission

EM300-SLD/ZLD Leak Detection Sensor

- Detect water leakage based on the principle of liquid conduction (SLD: Spot leak detection ZLD: Zone leak detection)
- LoRaWAN® certified (EM300-SLD)
- Data retrieval and data retransmission

LoRaWAN®

EM300-MLD Membrane Leak Detection Sensor

- Accurate conductive liquids' leakage detection in a large area
- Support local data storage and data retransmission & retrievability
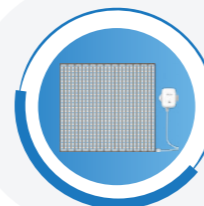
EM310-TILT Tilt Sensor

- 3-Axis accelerometer & built-in zero adjustment
- 36 customized trigger rules & rated at IP67
- NFC configuration & easy installation

EM310-UDL Ultrasonic Distance/Level Sensor

- Non-contact distance detection with 3-450 cm measurement range and short blind zone
- Detect device gesture with built-in 3-axis accelerometer sensor to monitor device tilt status

🔥 EM320-TH Temperature & Humidity Sensor

- ±0.2℃ high accuracy of temperature and ±2% RH of humidity
- Strong waterproof performance for harsh environments
- FDA-approved food contact material
- Anti-theft and anti-slip pad design on back cover
- Data retrieval and data retransmission

EM320-TILT FDA Approved Tilt Sensor

- 3-Axis accelerometer & built-in zero adjustment
- 36 customized trigger rules & rated at IP67

Revolutionizing Measurement and Monitoring

EM400 Series Distance/Level Measurement Sensor

LoRaWAN® **NB-IoT**

EM400-TLD ToF Laser Distance Sensor

- Detection ranges from 2 cm to 350 cm
- Designed for level monitoring in small trash bins
- Two pre-set modes: standard mode/ bin mode
- ToF Technology for high accuracy and almost no blind spot

Overall Features

- ▶ Rated at IP67
- ▶ LoRaWAN® & NB Version
- ▶ Embedded 3-Axis Accelerometer & NTC Thermistor
- ▶ Replaceable Battery Life up to 10 Years
- ▶ Easy Configuration via NFC

EM400-MUD Multifunctional Ultrasonic Distance Sensor

- Detection ranges from 3 cm to 450 cm
- Specialized in distance detection in trash bin and parking lot
- Pre-set modes: standard mode & bin mode
- Support pre-set parking lot mode (LoRaWAN® version only)
- Ultrasonic technology with small blind spots and support calibration

Smart Parking Lot

Boiler Expansion Monitoring

EM400-UDL Ultrasonic Distance Sensor

- Detection ranges from 25 cm to 1000 cm
- Professional for detecting water level in reservoir, industrial tank level and etc.
- Standard/professional versions available
- Support calibration for better accuracy

Reliable Data Collection for Long-term Remote Operation

EM500 Series - Outdoor Environment Monitoring Sensor

Overall Features

▶ Rated at IP67
▶ Replaceable Battery Life Up to 10 years
▶ Ultra-wide-distance Transmission
▶ NFC Configuration

EM500-PT100 Industrial Temperature Sensor

- Customizable temperature (-200 ~ 800℃)
- Terminal heads are available varing from the straight tube, armored, SMT, threaded, magnet

EM500-CO2 Carbon Dioxide Sensor (4 in 1)

- 4 in 1 (CO_2, temperature, humidity, barometric pressure)
- Measuring ranges (0 to 50°C): 400 ppm to 5000 ppm

EM500-UDL Ultrasonic Distance /Level Sensor

- 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

EM500-LGT Light Sensor

- Accurate detection of any light changes
- Measuring ranges from 0 to 100, 000 lux with high precision

EM500-SMTC Soil Moisture, Temperature and Electrical Conductivity Sensor

- Research-grade accuracy in multiple soil media
- Corrosion resistance & tough probe
- Rapid monitoring of growing conditions

EM500-PP Pipe Pressure Sensor

- Shock & vibration & corrosion resistant
- Measuring accuracy around ±0.5% FS to prevent leakage danger
- Temperature compensation for correcting temperature changes

EM500-SWL Submersible Water Level Sensor

- 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

The Workplace of the Future - Safer and Smarter

CoWork Series

LoRaWAN CERTIFIED D2D NFC

WS101 Smart Button

- Support multiple press actions
- Convenient size
- Built-in LED indicator & buzzer
- Support Milesight D2D Featuring LoRa®
- Battery life over 5 years

WS156 & WS136 Smart Scene Panel

- 100% wire-free
- Customizable display (WS156)
- Customizable stickers (WS136)
- Battery life up to 3 years
- Support Milesight D2D Featuring LoRa®
- LoRaWAN® certified (WS156)

WS201 Smart Fill Level Monitoring Sensor

- Detection ranges from 1 cm to 55 cm
- Suitable for diverse toilet paper dispenser
- Accurate fill level monitoring with ToF technology
- Battery life up to 2 years

WS202 PIR & Light Sensor

- Occupancy or motion detection
- Convenient size
- Built-in light sensor & PIR sensor
- Support Milesight D2D Featuring LoRa®
- Battery life up to 4 years

WS203 Motion & TH Sensor

- Flexible motion detection
- Adjustable detection angles
- Battery life up to 5 years
- Built-in temperature and humidity sensor
- Support local data storage and data retransmission & retrievability
- Support Milesight D2D featuring LoRa®

WS301 Magnetic Contact Switch Sensor

- 100% wire-free
- Tamper detection
- Built-in LED indicator
- Battery life up to 5 years
- Support Milesight D2D Featuring LoRa®

WS302 Sound Level Sensor

- Peak and average sound level measurement
- Simple design for blending with any interiors
- NFC configuration & wire-free installation
- LED alarm indicator
- Battery life up to 4 years

WS303 Mini Leak Detection Sensor

- Water leak detection with 0.5 mm to trigger alert
- Immediate warning locally and remotely
- Battery life up to 5 years & IP67 rated
- Support Milesight D2D featuring LoRa®

WS50x Wall Switch

- Time-delay, schedule, remote and scene-based control
- 1/2-gang & multinational versions (AU, EU, UK & US)
- Power consumption statistics
- Multicast for remote control in bulk
- Support Milesight D2D Featuring LoRa®

WS51x Smart Wall Socket

- Easy remote and local control
- Customizable scheduling control
- Group control with multicast
- Support overload protection
- V-0 flame-retardant material
- Support Milesight D2D featuring LoRa®

WS523 Portable Socket

- Remote & time-based ON/OFF
- Power consumption measurement and collection
- Overload protection/alarm
- Support multicast

WS558 Smart Light Controller

- Control up to 8 lighting circuits
- Remote & time-based ON/OFF
- Power consumption measurement
- Support Milesight D2D Featuring LoRa®

Sense the Invisible Danger

GS Series

LoRaWAN® · N · D2D

GS101 LoRaWAN® Gas Detector

- Methane (CH_4) sensor
- Event trigger
- Built-in auto-test function
- Ultra safe gas alarm threshold
- 800 records historical data storing capacity
- 5-year long life expectancy

GS301 LoRaWAN® Bathroom Odor Detector

- Detect NH_3 & H_2S with high accuracy
- Traffic light indicator & buzzer
- Battery life up to 3 years
- Support Milesight D2D Featuring LoRa®

Integrate Connectivity and Applications in One

DS Series

LoRaWAN® · N

DS3604 IoT E-ink Display

- 4.2 E-ink screen
- Three pigment ink system: red/white/black
- Customized templates in multiple modules
- Support over 150 languages
- Battery life up to 5 years
- Open API & LoRaWAN® Button

Office Restroom Hospital

CT101/CT103 Smart Current Transformer

CT Series

- Powered by the circuit under test, no batteries required
- Non-intrusive and quick installation without damaging circuits or shutting down the power supply
- Support sampling frequencies up to 3.3khz
- Determines the general direction of energy consumption and automatically calculates cumulative ampere-hour values once per second

Professional Temperature Monitoring

TS Series

LoRaWAN [N] [cloud]

TS101 Insertion Temperature Sensor

- ±0.5°C detection accuracy
- Food-grade enclosure and probe
- IP67 rated & IK10 rated (transceiver)
- Support data storage and retransmission
- Battery life up to 10 years

TS30x LoRaWAN® Temperature Sensor

- Rated at IP65
- Compliance with HACCP and 21 CFR Part 11B
- Optimized readability with LCD screen
- Efficient data export in PDF
- Support connection of PT100 temperature probe and door magnetic sensor

High Capacity, Long Endurance, Plug and Play

IP67 & 12000mAh UPS

UPS01 Uninterruptible Power Supply

- Capacity up to 12000mAh & IP67 rated
- Up to 32 hours' supplement
- Data Protection & Plug and Play

---

Accurate, Reliable and Continuous Weather Monitoring

WTS Series

LoRaWAN [N] [cloud]

▶ Overall Features

- All-in-one IoT Weather Station
- Solar-powered & Chargeable Batteries Backup
- Robust and Rugged
- Various Application Scenarios
- Data Retrieval and Data Retransmission

Barometric Pressure	Wind Direction	Wind Speed	Humidity	Temperature	Rainfall (WTS506 only)
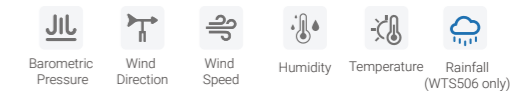
WTS305 IoT Weather Station
Standard Version

WTS506 🔥 IoT Weather Station
Pro Version

Protect and Manage Critical Assets at All Times

AT Series **LoRaWAN** 🌐 GNSS 📶 ❈ Bluetooth®

AT101 Outdoor Asset Tracker

- Highly-accurate GNSS positioning
- Cooperate with Wi-Fi positioning
- Support Geofencing
- Provide motion/periodic/timing Modes
- IP67 rated & IK09 rated
- Easy configuration via NFC or Bluetooth
- Embedded 3-Axis Accelerometer & NTC Thermistor
- Support data storage and retransmission
- Battery life over 15 years

iBox Kit Series

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.

LoRaWAN® **N** **D2D**

Overall Features

- Starters Enjoy It for Putting PoCs into Action with Reduced Time & Cost
- Operators Need It for New Projects and Potential Market Demands
- Deployers Love It for Easy to Deploy and Integrate with Multiple NS Platforms

· AM319 · AM307 · AM103 · AM102 · UG56 · Milesight IoT Cloud *Enjoy free cloud services for a specified period of time	
Indoor Air Quality Solution	**iBox IAQ Kit**

· WS101 · WS301 · AM103 · WS303 · WS558 · UC300 · UG56 · Milesight IoT Cloud *Enjoy free cloud services for a specified period of time	
Smart Building Solution	**iBox Smart Building Kit**

· VS121 · VS340 · DS3604 · UG56 · Milesight IoT Cloud *Enjoy free cloud services for a specified period of time	
Smart Office Solution	**iBox CoWork Kit**

· VS121 · WS101 · WS301 · WS156 · UC100 · UG56 · Milesight IoT Cloud *Enjoy free cloud services for a specified period of time	
Smart Office Solution	**iBox CoWork Kit**

· WS101 · WS201 · GS301 · VS330 · UC100 · UG56 · Milesight IoT Cloud *Enjoy free cloud services for a specified period of time	
Smart Restroom Solution	**iBox Smart Restroom Kit**

· EM500-SMTC · UC511 · UG56 · Milesight IoT Cloud *Enjoy free cloud services for a specified period of time	
Smart Agriculture Solution	**iBox Smart Agriculture Kit**

Smart Restroom Solution

Reshape Restroom, Release the Values of Smartness

Milesight Smart Restroom Solution seamlessly integrates advanced operational and environmental sensors and IoT technologies breaking the limitations of traditional restrooms.

- Effective Toilet Paper Replacement with Fill Level Monitoring
- Advanced HVAC Systems Based on H_2S and NH_3 Detection Data
- Detect Leaks Immediately with Leak Detection and Take Countermeasures.
- Integrated Information Displayed for Users Can Have a Visual View of the Restroom Conditions
- Metering Management in Real Time to Improve Energy Utilization and Energy Saving
- Occupancy Mastery Based on Cubicles Vacancy Data

Sensing to Get Advanced Imaging Insights

Milesight X Infinity Series

4G 📶 **Wi-Fi HaLow**

X1 Sensing Camera for Indoor Scenarios

- Inspire sensing insights through images
- 2MP high-definition images
- Easy-to-get wireless deployment
- Low power consumption
- Multi-object catching
- Multi-capturing modes
- Compact design
- Powerful camera capacity
- Collaborate with AIoT Sensing Platform
- Compatible with third-party platforms
- Battery life up to 2 years
- Wi-Fi HaLow version available

X5 Sensing Camera for Outdoor Applications

- 4G transmission
- Wi-Fi configuration
- Active based on time, DI, PIR, radar, temperature or noise
- IP66 rated & Adjustable rain cover
- Support GPS
- 2MP high-definition images
- Support infrared supplement light without disturbance
- Wireless deployment
- Power supply via type-c and solar power
- Support hibernate mode
- Collaborate with AIoT Sensing Platform
- Compatible with third-party platforms

Milesight AIoT Sensing Platform

The AIoT sensing platform aims to form a data group of each sensing object including all aspects for further analysis to avoid the incomplete, unreliable problem because of scattered data.
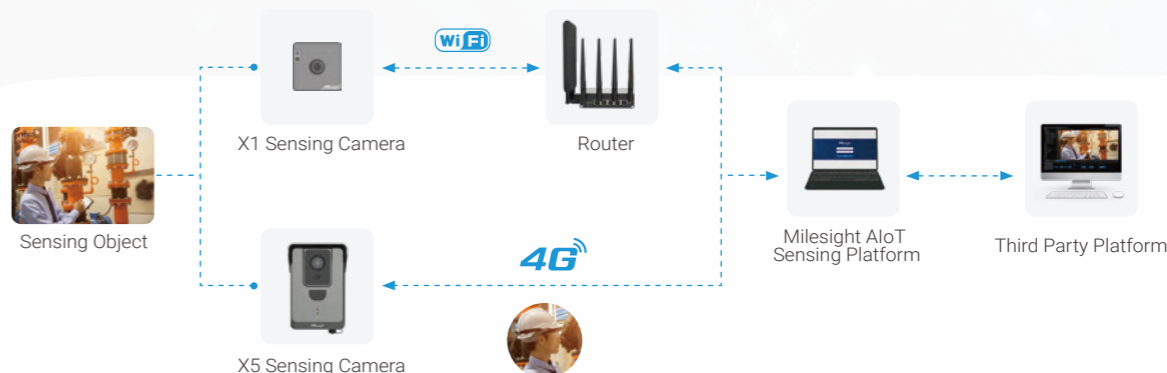
Device Management

- Add Sensing Devices & Check the Latest Device Telemetry Data
- Customized ROI Realizing Image Subdivision
- Recognize the Image Information of Meters and Digital Display Instrument, Define AI Recognition Values

Dashboard

- Real-Time Update of Images Captured by Sensing Cameras
- Statistics on Inactive and Active Device Status
- Device Exception Alarm (Low Battery or Inactive Status)

Sensing Objects

- Build a Sensing Object from Different Telemetry Data of Different Devices
- Search Historical Data of Sensing Objects

Open APIs

- Normalize All Data of The Sensing Object
- Support Data Output to Third-Party Platforms for Secondary Applications

Trigger

- Low Battery and Inactive Status Trigger Alarm Push
- Multiple HTTP and MQTT Receivers Can Be Set

OTA Update

- Batch Hardware Updating
- Configuration Files Batch Importing

Ultra-Fast and Futuristic

5G Series

Rugged Communications for Mission -Critical Applications

Industrial Cellular Router & Switch

UR32L Industrial Cellular Router

- High cost-effective with main router function
- 2 x 10/100 Mbps Ethernet interfaces for reliable network
- Support global 4G LTE network

UR32 Industrial Cellular Router

- Rich interfaces
  ① Wi-Fi/GPS (alternative)
  ② PoE (optional)
  ③ 2 x Ethernet ports, 1 x RS232, 1 x DI, 1 x DO
- Support secondary development with Python SDK & API
- Industrial-grade design
- Verizon Open Development Certification

UF51 5G CPE

- Flexible deployment
- Dual band Wi-Fi
- Outstanding performance
- Flexible installation
- Multiple industrial interfaces
- PoE PD powered

UR35 Industrial Cellular Router

- Rich interfaces
  ① 4 x PoE PSE Ethernet ports
  ② 1 x RS232, 1 x RS485, 1 x DI, 1 x DO
  ③ Wi-Fi & GPS
  ④ FXS port for telephone communication
- Wide input voltage
- Support secondary development with Python SDK & API
- Industrial-grade design

UR41 Mini Industrial Router

- Itsy-bitsy router with great flexibility
- Rich interfaces
  ① GNSS
  ② 1 x RS232/RS485, 1 x DI, 1 x DO
  ③ 1 x Ethernet port
- Ultra-low power consumption
- Industrial-grade design

UF31 5G Dongle

- Plug & play dongle for 5G connectivity
- SA/NSA & super-fast 5G speed
- Palm-sized design for any limited space
- Accelerator of 5G embedded applications

UR75 High-Performance 5G Industrial Router

- Fast speed 4G/5G network
- Wi-Fi 6
- Rich interfaces
  ① Gigabit Ethernet ports for lightning transmission of data
  ② 1 x RS232, 1 x RS485, 1 x DI, 1 x DO
  ③ 4 x Wi-Fi, 4 x cellular, 1 x GPS
  ④ 1 x USB port
- Industrial-grade design

PoE Switch

- Multiple-port options: 4, 8, 16, 24
- Smart PoE power supply
- Superb transmission
- Flexible extend mode
- SFP uplink port
- Surge protection

Bring Data Acquisition & Remote Control with Ease

IoT Controller

UC100 IoT Controller

- RS485 to LoRaWAN® transmission
- Cost-effective & super-tiny size
- Support Milesight D2D Featuring LoRa®

UC300 IoT Controller

- Backhaul connectivity: LoRaWAN® technology or 4G LTE
- Rich interfaces: DI/DO/AI/RS232/RS485/PT100 RTD input
- Customized trigger rules
- Desk, wall & DIN mounting
- Support Milesight D2D Featuring LoRa®

UC50x Series LoRaWAN® Controller

- Rich industrial interfaces: RS232/RS485(Switchable), GPIO, analog input and SDI-12
- Waterproof design including IP67 case and M12 connectors
- DC powered and built-in battery (optional)
- Solar powered (UC501)
- NFC or wired USB port for configuring
- Battery life up to 10 years
- Support internal antenna or external antenna version
- Multicast function and over threshold reporting are available
- Support local data storage (600 pieces), retrievability and retransmission

UC51x Series LoRaWAN® Solenoid Valve Controller

- 2 x outputs for connecting DC latching solenoid valve
- Two GPIO interfaces for flow monitoring or valve status monitoring
- DC powered or solar powered (UC511)
- Time and flow control
- LoRaWAN® certified (UC512)
- Battery life up to 10 years
- Support internal antenna or external antenna version
- Store locally 1000 historical records and support retransmission to prevent data loss

Remote Management Platform

Milesight IoT Cloud

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

- Transform real-time and historical data into drag-and-drop widgets on dashboard
- 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
- Licensing with ease: just copy & paste and upgrade is done

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

Milesight VPN

Milesight VPN 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