Better Inside, More in Sight









Active Branding

and expertise

overseas market scope

Increased brand awareness and expanded

2017-

2018

· Continuous innovation in advanced technology

About Milesight IoT

Milesight is a fast-growing high-tech company delivering smart IoT and video surveillance products with a focus on IoT technologies, including Artificial Intelligence, 5G and LoRaWAN®, since 2011. With improved sensing capability and advanced IoT insights, we help customers worldwide optimize their business operation in a more efficient and sustainable way. In collaboration with a global network of distributors and system integrators, we are committed to building open ecosystems and accelerating IoT strategies to the next level.

Milesight IoT delivers products including IoT Gateway, IoT Sensors, IoT Controllers and 4G/5G Industrial Routers & Switches to offer complete device-to-cloud-solutions for massively growing markets of smart office, smart building and smart agriculture in an actionable and adapted way.

Milesight Milestone

Grand Merger

- · Milesight Technology and Milesight IoT became one strong entity
- Introduced 5G technology and Al deep learning

IoT Era

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



Brand Upgrade

 Inauguration of the new headquarters & 10th Anniversary

2022-

2023

Establishment

- Milesight headquarters was founded
- Started from video surveillance industry

Quality & Innovation

 Kept diversifying the product portfolio & functions

2015-2016

· Evolved into unique Milesight brand recognition

Fast Growing

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

High-Performing & Value-Added • Joined LoRa Alliance to dive into IoT ecosystem

- Established Milesight Chengdu R&D center

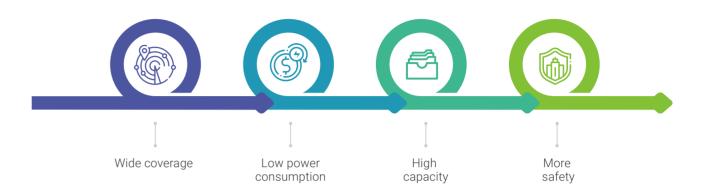
2012-2014

Why Milesight

Professional Technology Strong IoT know-how · State-of-the-art IoT technology: 5G, sensing, LoRaWAN®, Milesight D2D, Al **Strong Capabilities** • 56% of employees are working in R&D team • 15% revenue invested into R&D **Compliance and Associations** LORAMAN CE FC Q & @ W Flexible Integration · The Things Industries, ChirpStack, Actility, Senet and many more · Embrace easy interoperability with other network servers and clouds **Worldwide Coverage** WHY • Provide services over 120+ countries and regions MILESIGHT · Form a healthier and value-added channel management network

Why LoRaWAN®

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



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 $^{\!\scriptscriptstyle{(\!0\!)}}$
- No additional hardware and LoRaWAN® gateways are needed











Enable All-around Connectivity

LoRaWAN® Gateway





- Rated at IP30 and mini-sized
- Desktop, wall or ceiling mounting
- 5V Type-C port or PoE
- Backhaul backup: Ethernet

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)



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







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)

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



















Smart Classroom

Smart Supermarket

Smart Hospital

7/8/9-in-1 AM307/AM308/AM319

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





VS121 Al Workplace Occupancy Sensor



- LoRaWAN® & PoE version
- High ceiling mount version (7 meters)
- Up to 98% accuracy
- 78 m² 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







VS330 Bathroom Occupancy Detector



- 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



Overall Features

- ► Industrial-grade Design
- Support Extra Temperature and Humidity Detection (Except UDL & TILT)
- 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-TH Temperature & Humidity Sensor

- Temperature & humidity sensor
- ±0.3°C 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





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°C 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





TS101 Insertion Temperature Sensor

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

Revolutionizing Measurement and Monitoring

EM400 Series Distance/Level Measurement 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





Smart Parking Lot



Boiler Expansion Monitoring



EM400-MUD Multifunctional Ultrasonic Distance Sensor

• Detection ranges from 3 cm to 450 cm

GLASS

- 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

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 / snow level versions available
- Support calibration for better accuracy







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-CO₂ Carbon Dioxide Sensor (4 in 1)

- 4 in 1 (CO₂, temperature, humidity, barometric pressure)
- Measuring ranges (0 to 50°C): 400 ppm to 5000 ppm



EM500-LGT Light Sensor

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



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-PT100 Industrial Temperature Sensor

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



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-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-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





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



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®



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®



WS523 Portable Socket

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



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



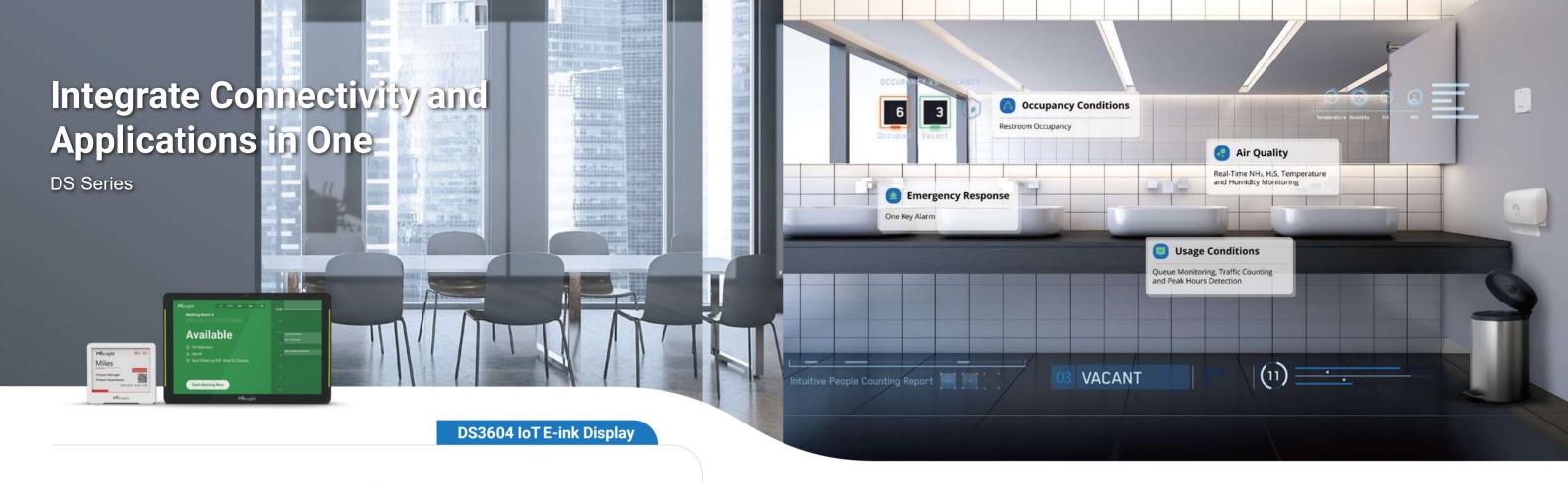
WS50x Wall Switch

- 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®



WS558 Smart Light Controller

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



- 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

Milesight Miles Product Manager Product Department Milesight

DS7610 IoT Display









- Built-in LoRaWAN® gateway
- Robust features for secondary development
- 10.1 inch capacitive touch screen
- Support third-party Android applications







Office Restroom

Hospital

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 H₂S and NH₃
 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

Sense the Invisible Danger

GS Series





WTS Series



Overall Features

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

















GS101 LoRaWAN® Gas Detector

- Methane (CH₄) sensor
- Event trigger
- Built-in auto-test function
- Ultra safe gas alarm threshold
- 800 records historical data storing capacity
- 5-year long life expectancy

WTS305 IoT Weather Station Standard Version



WTS50x **IoT Weather Station** Pro Version

GS301 LoRaWAN® Bathroom Odor Detector

- Detect NH₃ & H₂S with high accuracy
- Traffic light indicator & buzzer
- Battery life up to 3 years
- Support Milesight D2D Featuring LoRa®



Protect and Manage Critical Assets at All Times

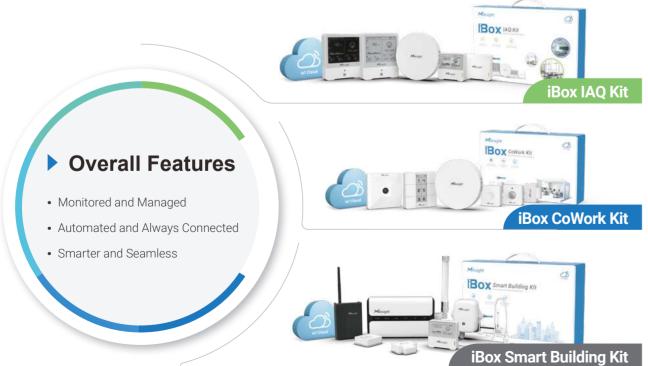
AT Series LoRaWAN° GNSS SBluetooth

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











Smart Classroom

Smart Office

Smart Building

iBox IAQ Kit Lighting Your Way to Green Air

- See your environment
- Reinforce your health
- Maintain your business continuity



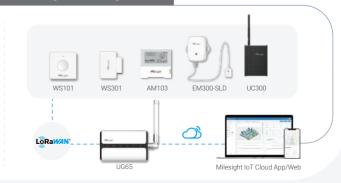
iBox CoWork Kit Workplace Efficiency and Utilization



- Interactive collaboration between devices within 1 second
- Automated scenarios switch
- Develop device-to-cloud connectivity

iBox Smart Building Kit Automated Monitoring and Management

- Simple to install and easy to use
- Driven by real needs and requirements
- Convert your idea with digital innovations





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 AloT Sensing Platform
- Compatible with third-party platforms
- Battery life up to 2 years

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 AloT Sensing Platform
- Compatible with third-party platforms







Device Management Platform

- Unified Management of The Devices
- Bulk Upgrade & Configuration & Set ROI Area
- Retrieve Historical Data



Data Center Platform

- Normalize All Data of The Sensing Object
- Transfer to Back-end for More Possibilities
- Recognize The Image Information of Meters



Customizable Dashboard for Demo Solution

- Implement The Logic of Demo Solution Directly
- Visualize The Demo Solution on The Platform





UF51 5G CPE

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



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



-Critical Applications Industrial Cellular Router & Switch

Rugged Communications for Mission



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



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



verizon/

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

E BEEF

- Support secondary development with Python SDK & API
- Industrial-grade design
- Verizon Open Development Certification



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



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®



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
- Support local data storage (600 pieces), retrievability and retransmission



LoRaWAN

UC300 IoT Controller

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











UC51x Series LoRaWAN® Solenoid **Valve Controller**

- 2 x outputs for connecting DC latching solenoid
- 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
- Store locally 1000 historical records and support retransmission to prevent data loss

Remote Management Platform









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

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

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

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

