

- Make Sensing Matter ▪



Milesight IoT Product Brochure

V2.0



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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



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



Flexible Integration

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



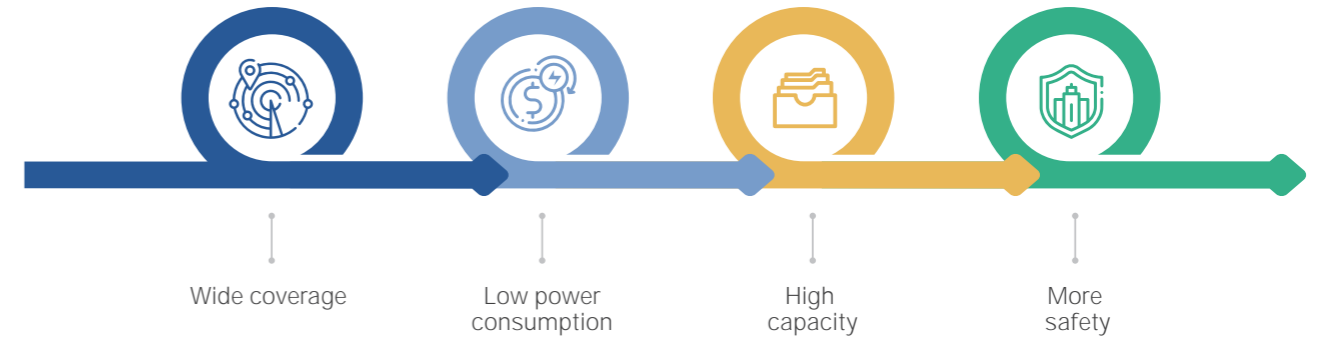
Worldwide Coverage

- 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.



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
- 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







Why Leading Technologies

By harnessing advanced technologies such as AI, ToF, and more, Milesight continuously strengthens its ability to transform data into meaningful insights and intelligent action. Through deep technical expertise and forward-looking innovation, we turn emerging technologies into practical IoT solutions that empower smarter decisions, higher efficiency, and measurable business value.

AI

As one of the most influential technologies today, AI is accelerating the shift of IoT from simple connectivity to intelligent systems. As a foundational intelligence layer, it enhances sensing capabilities with greater accuracy, adaptability, and insight, driving the trend toward smarter and more responsive connected environments.




-  Context Awareness
-  Data Refinement
-  Rich Functionality
-  Continuous Learning Capability



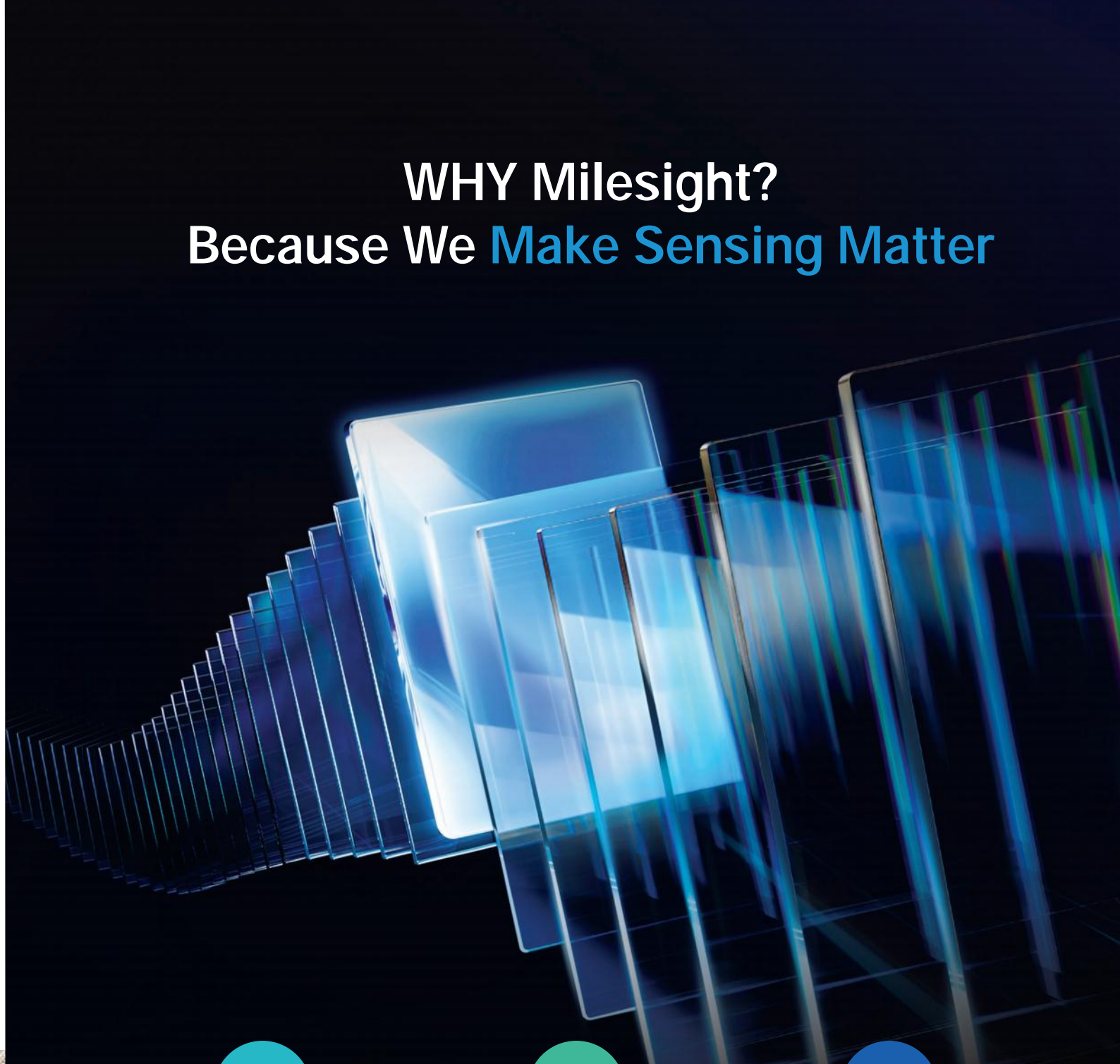
4D ToF


As a fast-growing sensing technology, ToF is reshaping precision detection with high accuracy and privacy-first design. Powered by advanced depth perception and continuous optimization, Milesight ToF solutions deliver industry-leading performance and stability without image capture, setting a benchmark for reliable and compliant sensing.




-  High Accuracy
-  Privacy by Design
-  Environmental Adaptability

WHY Milesight? Because We **Make Sensing Matter**




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Capturing Meaningful Data Matters

We provide multi-potential sensing products, focusing on the data that adds value, reflects patterns, and assists decision-making.
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Responding to Customer Demands Matters

We adapt to evolving customer needs, creating products that are relevant to them and making a significant impact across varied applications, projects, and industries.
- 

Thriving Together with Partners Matters

Alongside our expanding partner ecosystem, we develop comprehensive solutions, deliver value offerings, and accelerate results for customers.

Product Application Matrix



Product Series

- Occupancy & People Counting Series
- WS & WT & CT Series
- EM Series
- AM & GS Series

Smart Building

People Sensing (Spatial Efficiency)	ToF: VS13x-VS330, VS351-VS341, VS340-VS350-VS360, VS125-VS121-VS321, VS370-VS373
Workplace Facility Management	Wireless Control: WS101, WS156/WS136; Light Control: WS50x, WS558; IEQ Monitoring: WS202, WS302, WS301
Energy Management	Current Monitoring: CT3xx, CT10x, CTH01; Circuit Management & Power Collection: WS51x, WS523, WS558
HVAC & TH Monitoring	Temperature Control: WT401, WT30x, WT201, WT10x; TH Monitoring: WS203, EM300-TH, EM320-TH
Smart Restroom	9-in-1 IAQ Monitoring: AM300 Series; Fill level & Leakage Monitoring: WS201-WS303; Fill-level Monitoring: EM400-TLD; Dribble Detection: VS330
Indoor Air Quality Monitoring	3-in-1 IAQ Monitoring: AM100 Series; 9-in-1 IAQ Monitoring: AM300 Series; Odor Detection: GS301 (NH ₃ & H ₂ S), GS601
Resource Management	Leakage Monitoring: WS303, EM300-MLD, EM300-SLD/ZLD
Parking Management	Ultrasonic Distance Measurement: EM400-MUD, EM400-UDL; RGB: PM3322-E

Logistics & Cold Chain

Food Hygiene	Temperature & Humidity Monitoring: EM320-TH, EM300-TH, TS30x	Warehousing	Temperature & Humidity Monitoring: EM300-TH, TS201
Pharmaceutical Cold Chain	Temperature & Humidity Monitoring: EM320-TH, TS30x, TS201	Transportation	Temperature & Humidity Monitoring: TS60x

Smart Retail

People Sensing (Spatial Efficiency)	ToF: VS13x&VS330, VS351&VS341, VS340&VS350&VS360, VS121&VS321&VS125 Series&VS126, VS373&VS370
Environmental Sensing	Temperature & Humidity Monitoring: EM300-TH, EM320-TH, TS201, TS30x; 3-in-1 IAQ Monitoring: AM100 Series; 9-in-1 IAQ Monitoring: AM300 Series; Odor Detection: GS301 (NH ₃ & H ₂ S)

Smart City

Resource Monitoring	Ultrasonic Distance Measurement: EM400-MUD; ToF Distance Detection: EM400-TLD; Tilt Monitoring: EM320-TILT; Magnetic Contact: EM300-MCS
Outdoor Environmental Sensing	CO ₂ Monitoring: EM500-CO ₂ ; Illumination Monitoring: EM500-LGT; Water Level Monitoring: EM500-SWL, EM410-RDL
Others (Public Utility)	Ultrasonic Distance Measurement: EM400-UDL, EM500-UDL; Pulse Detection: EM300-DI; Pipe Pressure Detection: EM500-PP; Picture Capture: X1; Current Monitoring: CT3xx

Smart Agriculture

Irrigation & Soil Monitoring	3-in-1 Soil Monitoring: EM500-SMTC; Solenoid Valve: UC51x	Outdoor Environmental Sensing	Illumination Detection Monitoring: EM500-LGT; CO ₂ Monitoring: EM500-CO ₂ ; Weather Station: WTS506
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Smart Industry

Industrial Environmental Sensing	Temperature Monitoring: EM500-PT100, TS30x	Facility Management	Ultrasonic Distance Measurement: EM400-UDL, EM500-UDL; Magnetic Contact: EM300-MCS; Industrial Signal Converter: UC50x
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People Sensing Driven Smart Building










PEOPLE SENSING

Top in Occupancy & People Counting, and Lead the People Sensing









- TOP in Providing Full Product Lineup in the Market, All Here
- TOP in Providing A Full Range of Technologies for Every Scenario in the Market
- TOP in Covering the Most Applications in the Market



Facility Management

Facility Protection & Maintenance	Efficient Management	Meter Retrofits	Restroom Management
<p style="font-size: small; color: #f4a460;">Circuit Operational Status Monitoring</p>  <p style="font-size: x-small; text-align: center;">CT Series</p> <hr/> <p style="font-size: small; color: #f4a460;">HVAC System Performance Monitoring</p>  <p style="font-size: x-small; text-align: center;">WT Series IAQ Series</p> <hr/> <p style="font-size: small; color: #f4a460;">Facility Protection</p>  <p style="font-size: x-small; text-align: center;">TS Series EM Series</p>	<p style="font-size: small; color: #f4a460;">HVAC Control</p>  <p style="font-size: x-small; text-align: center;">WT Series</p> <hr/> <p style="font-size: small; color: #f4a460;">Lighting Control</p>  <p style="font-size: x-small; text-align: center;">WS Series</p>	<p style="font-size: small; color: #f4a460;">Remote Meter Reading</p>  <p style="font-size: x-small; text-align: center;">UC Series</p> <hr/>  <p style="font-size: x-small; text-align: center;">EM300-DI</p>	<p style="font-size: small; color: #f4a460;">Restroom Cleaning Schedule Management</p>  <p style="font-size: x-small; text-align: center;">People Sensing WS Series</p> <hr/> <p style="font-size: small; color: #f4a460;">Restroom Supplies Management</p>  <p style="font-size: x-small; text-align: center;">WS Series</p>

Energy Management

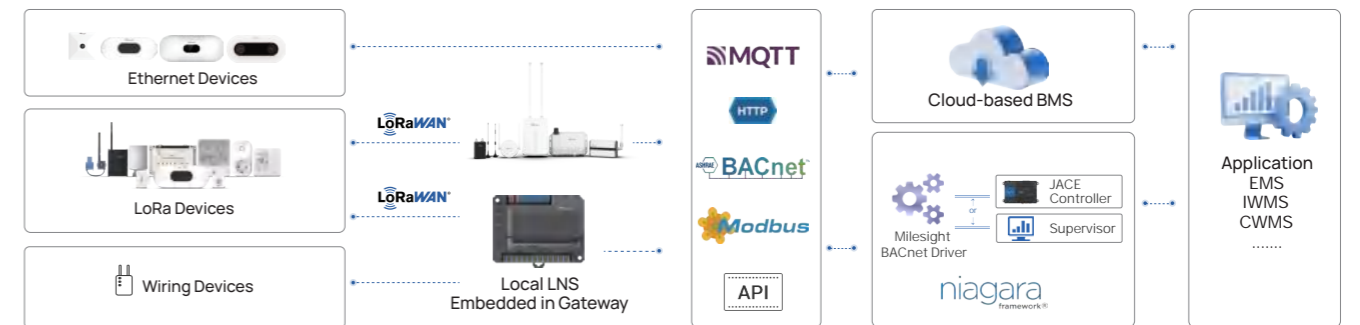
HVAC Management	Lighting Management
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="font-size: x-small; color: white;">Unified Manual Dispatch & Local Automation Adjustment</p>  <p style="font-size: x-small; text-align: center;">WT Series</p> </div> <div style="width: 45%;"> <p style="font-size: x-small; color: white;">Data-Driven Control: Real-Time Local Interaction</p>  <p style="font-size: x-small; text-align: center;">IAQ&WS Series VS Series</p> </div> </div> <hr/> <p style="font-size: x-small; color: #008080;">Data-Driven Control: Energy-Saving Strategy Optimization</p>  <p style="font-size: x-small; text-align: center;">CT Series EM & TS Series EM Series</p>	<p style="font-size: small; color: #008080;">Smart Lighting Control</p>  <p style="font-size: x-small; text-align: center;">WS Series</p> <hr/>  <p style="font-size: x-small; text-align: center;">VS Series</p>
<p style="font-size: small; color: #008080;">Data-Driven Control: Real-Time Local Interaction</p>  <p style="font-size: x-small; text-align: center;">WS Series</p> <hr/> <p style="font-size: small; color: #008080;">Data-Driven Control: Energy-Saving Strategy Optimization</p>  <p style="font-size: x-small; text-align: center;">WS Series</p> <hr/>  <p style="font-size: x-small; text-align: center;">CT Series</p>	

Space Management

Environmental Comfort	Workspace Management	People Caring	Smart Restroom Comfort
<p style="font-size: small; color: white;">Temperature and Humidity Control</p>  <p style="font-size: x-small; text-align: center;">IAQ&EM Series</p> <hr/>  <p style="font-size: x-small; text-align: center;">WT Series</p> <hr/>  <p style="font-size: x-small; text-align: center;">VS Series</p> <hr/> <p style="font-size: small; color: white;">Noise Monitoring (E-)Cigarette Detection</p>  <p style="font-size: x-small; text-align: center;">WS302 GS601</p>	<p style="font-size: small; color: white;">Space Optimization</p>  <p style="font-size: x-small; text-align: center;">VS&DS Series</p> <hr/> <p style="font-size: small; color: white;">Footfall Monitoring</p>  <p style="font-size: x-small; text-align: center;">VS Series</p> <hr/> <p style="font-size: small; color: white;">Sanitation Management</p>  <p style="font-size: x-small; text-align: center;">VS Series</p>	<p style="font-size: small; color: white;">Safety & Healthy Monitoring</p>  <p style="font-size: x-small; text-align: center;">VS373 Fall Detection</p> <hr/> <div style="background-color: #003366; color: white; padding: 2px; text-align: center; font-size: x-small;"> Human Well-being Certification Assistance </div> <p style="font-size: small; color: white;">IAQ Monitoring</p>  <p style="font-size: x-small; text-align: center;">Sustainability Fire Safety</p>	<p style="font-size: small; color: white;">Restroom Air Quality Management</p>  <p style="font-size: x-small; text-align: center;">GS301</p> <hr/> <p style="font-size: small; color: white;">User Satisfaction Management</p>  <p style="font-size: x-small; text-align: center;">VS350 Display</p>

Empower Smart Building

Integration with Niagara



Boosting Smart Retail

<p style="font-size: small; color: #003366;">Storefront Monitoring</p> <ul style="list-style-type: none"> • Store Location Traffic Analysis • Ad Visibility and Impact Analysis • In-Store Conversion Rate Analysis  <p style="font-size: x-small; text-align: right;">VS121/VS125-O</p>	<p style="font-size: small; color: #003366;">Entrance Analysis</p> <ul style="list-style-type: none"> • Foot Traffic Trend Analysis • Customer Demographics Analysis • Entry Rate Analysis • Conversion Opportunity Analysis  <p style="font-size: x-small; text-align: right;">VS13x/VS125</p>
<p style="font-size: small; color: #003366;">In-Store Insights</p> <ul style="list-style-type: none"> • Store Layout Optimization • Conversion Boosting • Staff Efficiency Analysis  <p style="font-size: x-small; text-align: right;">VS13x/VS125/VS121/VS125-LW</p>	<p style="font-size: small; color: #003366;">Checkout Monitoring</p> <ul style="list-style-type: none"> • Queue Management • Staff Efficiency • Customer Experience Improvement • Conversion Boosting  <p style="font-size: x-small; text-align: right;">VS13x/VS125</p>

Put the "Smart" in Milesight Headquarters:

Unveiling Milesight's Smart Green Building for Enhanced Energy Efficiency and Cost Savings

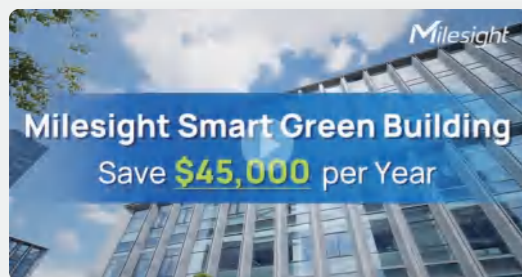


A Glimpse into Milesight Headquarters

- Area **10,400m²**
- Workstations **740**
- Sensors **352**
- Functional Rooms/Areas **20**
- 40** Meeting Rooms
- 126** Cameras
- 5** Floors
- 1** Underground Parking
- 1** Rooftop



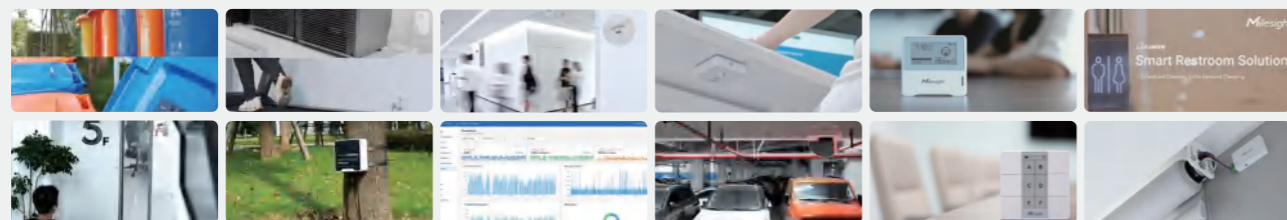
Inside the Smart Green Building of Milesight



Energy efficiency and sustainable development have always been our goals to design the smart Milesight building. Moreover, for our staff, the company is where they spend the most time outside of their homes during the week. We aspire furnish employees with an intelligent, comfortable workspace, elevating job contentment.



----- Sway Hong, Director of R&D Department



Deployment Map

In the Milesight Green Building, there are a total of 352 Milesight sensors and 126 AI Network Cameras in deployment. These sensors play a crucial role in making the building smarter, enhancing energy efficiency and employee satisfaction. Additionally, the 126 Milesight AI Network Cameras strategically placed throughout the building serve to detect unauthorized access and suspicious loitering, effectively safeguarding lives and property.

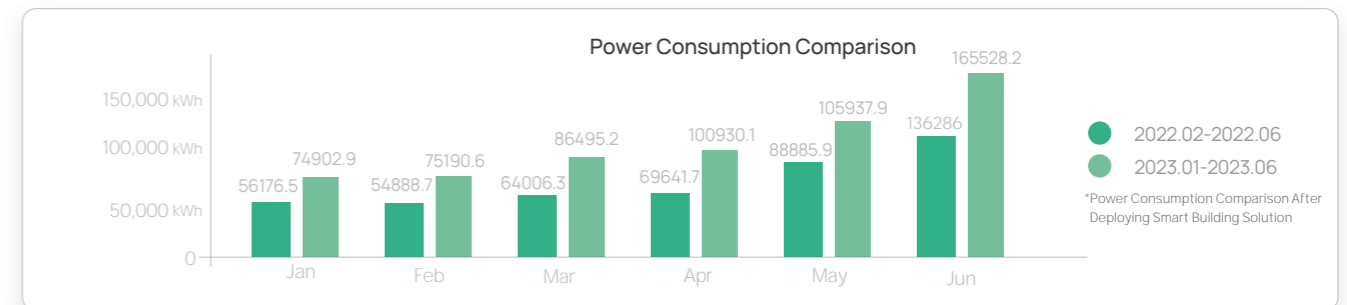


● Cameras ● Sensors

Results on Quantifiable Benefits: Save Approximately \$45,000 per Year



Energize Energy Efficiency and Sustainability



Enhancing ESG with Milesight Green Building



Environmental Impact

The Milesight Green Building emphasizes energy efficiency and sustainability, aligning with global environmental goals. By utilizing advanced technologies like LoRaWAN®, AI, and 5G, the building optimizes energy and water consumption, significantly reducing its carbon footprint. Real-time monitoring and intelligent systems ensure that resources are utilized efficiently, contributing to a greener environment.



Social Responsibility

Milesight's dedication to creating a smart and comfortable workspace for employees demonstrates their commitment to social responsibility. The focus on indoor air quality occupant comfort, and smart restroom solutions enhances the overall well-being and satisfaction of the workforce. This approach fosters a conducive work environment that prioritizes the health and happiness of its employees.



Governance

Incorporating state-of-the-art security measures and advanced surveillance systems Milesight showcases its dedication to robust corporate governance. The deployment of AI-powered cameras, face-human recognition, and comprehensive security protocols ensures the safety of employees and protects valuable assets. These initiatives underline Milesight's commitment to maintaining a secure and well-governed workplace.

Enable All-around Connectivity

Milesight IoT Gateway

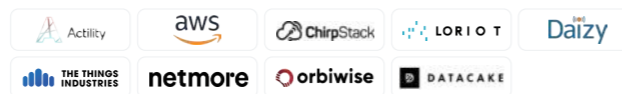


Comparison Guide for IoT Gateways



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
- ▶ 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)
- ▶ High Compatibility with Multiple Network Servers, including:
 - Remote Embedded NS
 - Milesight DeviceHub LNS
 - Embedded Network Server
 - Milesight Development Platform LNS
 - Compatible with Mainstream Network Servers



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



reddot winner 2024



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
- Support Milesight BACnet Driver



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
- Support Milesight BACnet Driver

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
- Support Milesight BACnet Driver
- Power outage alert
- GPS positioning



EG71 Building IoT Gateway

- Integrated LoRaWAN® network server
- Programmable and support local BMS operation
- Support mainstream BMS protocols including BACnet/IP, Modbus RTU/TCP, KNX, and M-Bus

See the Unseen to Know Indoor Air Quality

IAQ Sensor

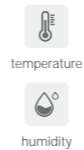


Comparison Guide for IAQ Sensors



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



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)
- Battery life up to 3 years (AM103) / 4 years (AM103L)

4/5/7/8/9 AM304L/AM305L/AM307/AM308(L)/AM319

- 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)
- Battery life up to 7 Years (AM304L) / 6 Years (AM305L) / 3 years (AM307) / 1.5 years (AM308L) / 1 year (AM308)



Empowering Efficient Energy Management

CT Series



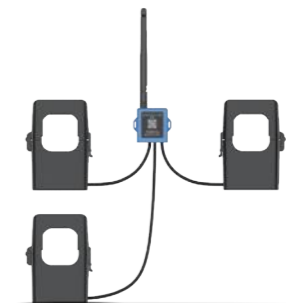
CT10x Smart Current Transformer



- CT101 with 100A current capacity
- CT103 with 250A current capacity
- CT105 with 500A current capacity
- Detachable and cable-free design

CT3xx Smart Current Transformer

- CT303 with 300A current capacity
- CT305 with 500A current capacity
- CT310 with 1000A current capacity
- Innovative one-to-three design



CTH01 Smart Power Monitor Hub



- 4 three-phase or 12 single-phase simultaneous monitoring
- Non-invasive magnetic installation, zero downtime
- Compatible with CTs and Rogowski coils
- Industrial-grade comprehensive power analytics

Top in Occupancy & People Counting, and Lead the People Sensing

People Sensing



Space Occupancy Detection
VS121 AI Workplace Occupancy Sensor

- Accuracy: Up to 95%
- Technology: AI, RGB
- Functionality: Bi-directional/Regional people counting, multi-zone occupancy detection
- Application: Workplace

Wireless Bathroom Occupancy Detection
VS330 Bathroom Occupancy Sensor

- Accuracy: Up to 99.5%
 *Will be influenced by outdoor sunlight
 *Not appropriate for some cubicles
- Technology: PIR, ToF
- Functionality: Occupancy detection
- Application: Restrooms



Occupancy Detection in Meeting Rooms
VS370 Radar Human Presence Sensor

- Accuracy: Up to 99%
- Technology: Millimeter Wave Radar and PIR
- Functionality: Presence detection
- Application: Meeting rooms of all sizes



Fall Detection
VS373 Radar Fall Detection Sensor

- Accuracy: Up to 99%
- Technology: Millimeter Wave Radar
- Functionality: Fall detection
- Application: Nursing home rooms, hospital wards, public restrooms, etc.

Wireless Desk & Seat Occupancy Detection
VS34x Desk & Seat Occupancy Sensor

- Accuracy: VS340: Up to 95% / VS341: Up to 98%
 *Will be influenced by environmental temperature
- Technology: VS340: PIR / VS341: PIR, Thermopile
- Functionality: Desk & Seat occupancy
- Application: Workstation



Wireless Occupancy Sensor
VS321 Battery Version Workplace Occupancy Sensor

- Accuracy: Up to 95%
- Technology: PIR, RGB, AI
- Functionality: Occupancy detection
- Application: Offices, meeting rooms, campuses, etc.

People Counting



Indoor People Counting VS133 AI ToF People Counting Sensor

- Accuracy: Up to 99.8%
- Technology: AI, 2nd generation ToF
- Functionality: Bi-directional/Regional people counting, dwell time detection
- Application: Retail, building, airport, supermarket
- Advanced Features: Staff detection · adults/children differentiation · group counting · heat map · multi-device stitching (4 devices) · shopping cart & tailgating detection



High-Ceiling Indoor and Semi-Outdoor People Counting VS135 Ultra ToF People Counter

- Accuracy: Up to 99.8%
- Technology: AI, 2nd generation ToF
- Functionality: Bi-directional/Regional people counting, dwell time detection
- Application: Retail, building, airport, supermarket
- Advanced Features: Staff detection · adults/children differentiation · group counting · heat map · multi-device stitching (8 devices) · shopping cart & Tailgating detection



6.5m
High Mounting

IP65



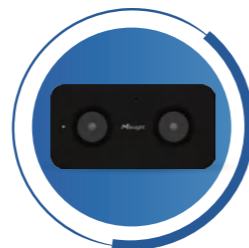
Indoor People Counting VS125 AI Stereo Vision People Counter

- Accuracy: Up to 99.8%
- Technology: AI, binocular stereo vision
- Functionality: Bi-directional/Regional people counting, dwell time detection
- Application: Retail, building, airport, supermarket
- Advanced Features: Staff detection · adults/children differentiation · group counting · heat map · multi-device stitching (16 devices) · shopping cart & Tailgating detection

GDPR

Professional Outdoor Performance VS125 Outdoor Version

- Professional outdoor performance: IP67 & -30~65°C
- Tough environment ready: reliable operation in rain and sun
- 0Lux ultra low light & distinguished image quality
- Versatile connectivity with PoE & 4G cellular



GDPR



Wider Field of View for Low-Ceiling Stores VS125 Low-and-wide Version

- Optimized for 1.9m–3.5m low ceilings
- 0Lux ultra low light & distinguished image quality
- Versatile connectivity with PoE & 4G cellular

GDPR

High Ceiling Indoor People Counting VS126 AI Ultra High-Mount People Counter

- Accuracy: Up to 99.8%
- Technology: AI, binocular stereo vision
- Functionality: Bi-directional/regional people counting, dwell time detection
- Application: Retail, building, airport, supermarket



GDPR

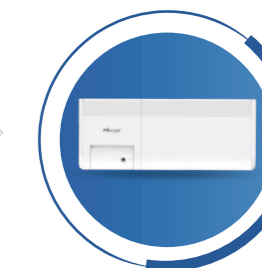


Wireless Indoor Passage People Counting VS350 Passage People Counter

- Accuracy: Multiple people: ~80%
- Technology: Dual PIR
- Functionality: Bi-directional people counting
- Application: Retail, workplace, restroom

Wireless Indoor Entrance People Counting VS351 Mini AI Thermopile People Counter

- Accuracy: Up to 95%
- Technology: Radar, thermopile
- Functionality: Bi-directional people counting
- Application: Meeting room



Indoor Semi-Open Area People Counting VS360 IR Breakbeam People Counter

- Accuracy: Multiple people: 85%
- Technology: IR breakbeam
- Functionality: Bi-directional people counting
- Applications: Meeting room entrances, corridors, escalators, pop-up stores

Storefront People Counter VS361 Storefront Footfall Sensor

- Accuracy: Up to 99%
- Technology: Infrared
- Functionality: Footfall and people counting
- Application: Retail storefront



Comparison Guide for
People Counting Products

Smart Heating and Cooling Controls

WT Series



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

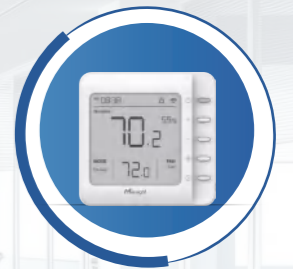
WT102 Smart Radiator Thermostat

- Self-powered without extra power
- LoRaWAN® Class B for rapid, precise, and efficient control
- Smart temperature control: fast comfort, optimal energy efficiency
- Remote panel enables easy, unified control across devices with WT401



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®



WT303/WT304 FCU Thermostat

- Suitable for 2 pipe/4-pipe FCU
- On/off Relay/0-10V Valve
- AC100-240V
- Support Milesight D2D
- Data-driven control
- Energy-saving strategy

WT401 Wireless Smart Thermostat

- Wireless operational mode
- Simplified management
- Local automation adjustment
- 5-year battery life
- Better with UC711 HVAC Controller

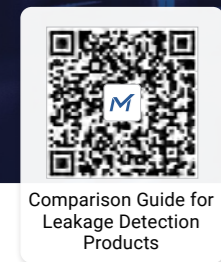


UC711 HVAC Controller

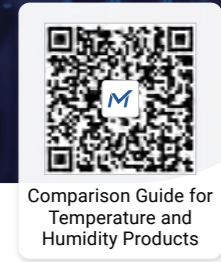
- Work smoothly paring with WT401 wireless thermostat via BLE or PowerBus
- Supports up to 4 Heat/2 Cool, & Cool, Heat, Auto, & 5 Fan modes including Auto/High/Medium/Low/Circulate
- Specialized HVAC system management module for more professional applications
- Schedules can work as you set even during disconnection for up to 72h
- Support 24VAC power Supply

Monitor Conditions and Optimize Controls

EM300 Series - Environment Monitoring Sensor



Comparison Guide for Leakage Detection Products



Comparison Guide for Temperature and Humidity Products

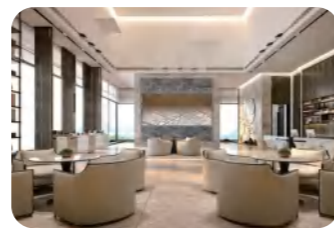


Overall Features

- ▶ 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

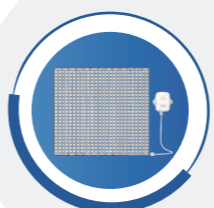


EM300-TH Temperature & Humidity Sensor

- Temperature & humidity sensor
- $\pm 0.3^{\circ}\text{C}$ high accuracy of temperature and $\pm 3\%$ 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



EM300-MLD Membrane Leak Detection Sensor

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

EM320-TH FDA Approved Temperature and Humidity Sensor

- $\pm 0.2^{\circ}\text{C}$ high accuracy of temperature and $\pm 2\%$ 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
- Low power consumption with 10 years battery life



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



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



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



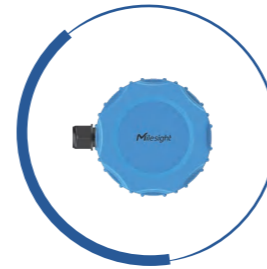
EM400-UDL Ultrasonic Distance Sensor

- 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



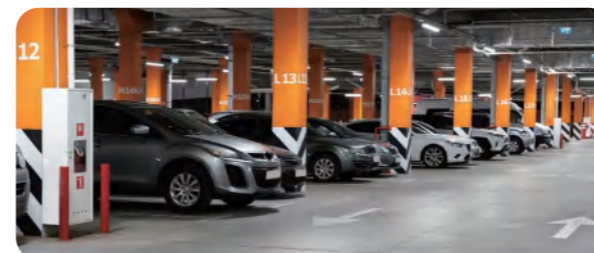
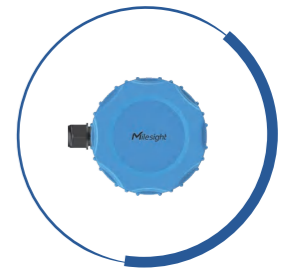
EM410-RDL Radar Distance Detector

- Millimeter-wave radar technology
- Up to 12 meters measurement range, 60GHz, 8°
- High dust protection level
- Battery-powered
- Sewer level detection

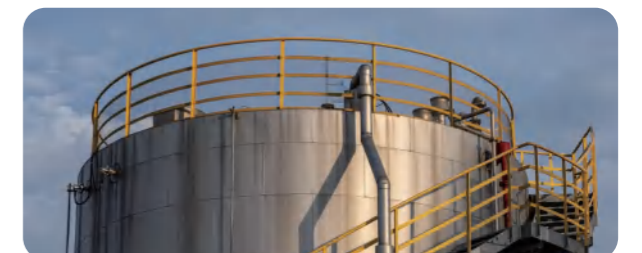


EM411-RDL Radar Distance Detector

- ATEX Explosion-proof certified
- Flexible installation with both G-thread and NPT-thread versions
- Supports LoRaWAN® with multiple SKU configurations
- local data storage & data retransformation for reliable performance



Smart Parking Lot



Boiler Expansion Monitoring



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°C)
- Terminal heads are available varying from the straight tube, armored, SMT, threaded, magnet



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-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



WS101 Smart Button

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



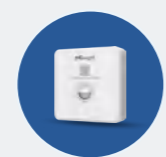
WS201 Smart Fill Level Monitoring Sensor

- 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®



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®



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®



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®



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®



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®



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)

Sense the Invisible Danger

GS Series



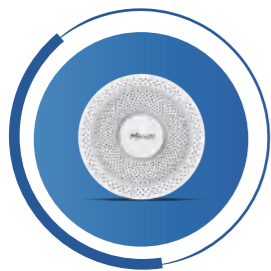
GS301 LoRaWAN® Bathroom Odor Detector

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



GS601 Vape Detector

- Vape detection
- Type-C for frequent supervising
- 70dBA buzzer and Multi-color indicator
- Anti-demolition & Warning



Deployment with Ease

Deployment Tool



Deployment with Ease

Misesight Accessories



FT101 Misesight Field Tester

- Real-time network signal testing and analysis
- 5.72 inch full HD touch screen
- Full frequency band testing capability
- Records signal test results with GPS location
- Seamless report export and data analysis
- Long-lasting battery life

UPS01 Uninterruptible Power Supply

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



SCT01 Sensor Configuration Tool

- Support fast configuration
- Support Bluetooth connectivity for export
- Ideal for on-site deployments and large-scale projects

Professional Temperature Monitoring

TS Series



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

TS201 Cost-Effective Temperature Sensor

- LED light status indicator
- Rugged IP67 rating
- Up to 2800/4000 sets of data logging
- Comply with EN12830 standard
- Average battery life: 3 years
- Waterproof probe with temperature probe DS18B20 available
- Digital temperature and humidity probe SHT41 available
- Independent calibration



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

TS60x Temperature & Humidity Sensor

- Waterproof probe with temperature probe DS18B20 available
- Digital temperature and humidity probe SHT41 available



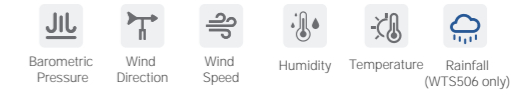
Accurate, Reliable and Continuous Weather Monitoring

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



WTS506 IoT Weather Station



Protect and Manage Critical Assets at All Times

AT Series



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

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



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.



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
 - AM102L
 - 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

Ultra-Fast and Futuristic

5G Series

5G



Rugged Communications for Mission-Critical Applications

Industrial Cellular Router & Switch



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



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



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(L) 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

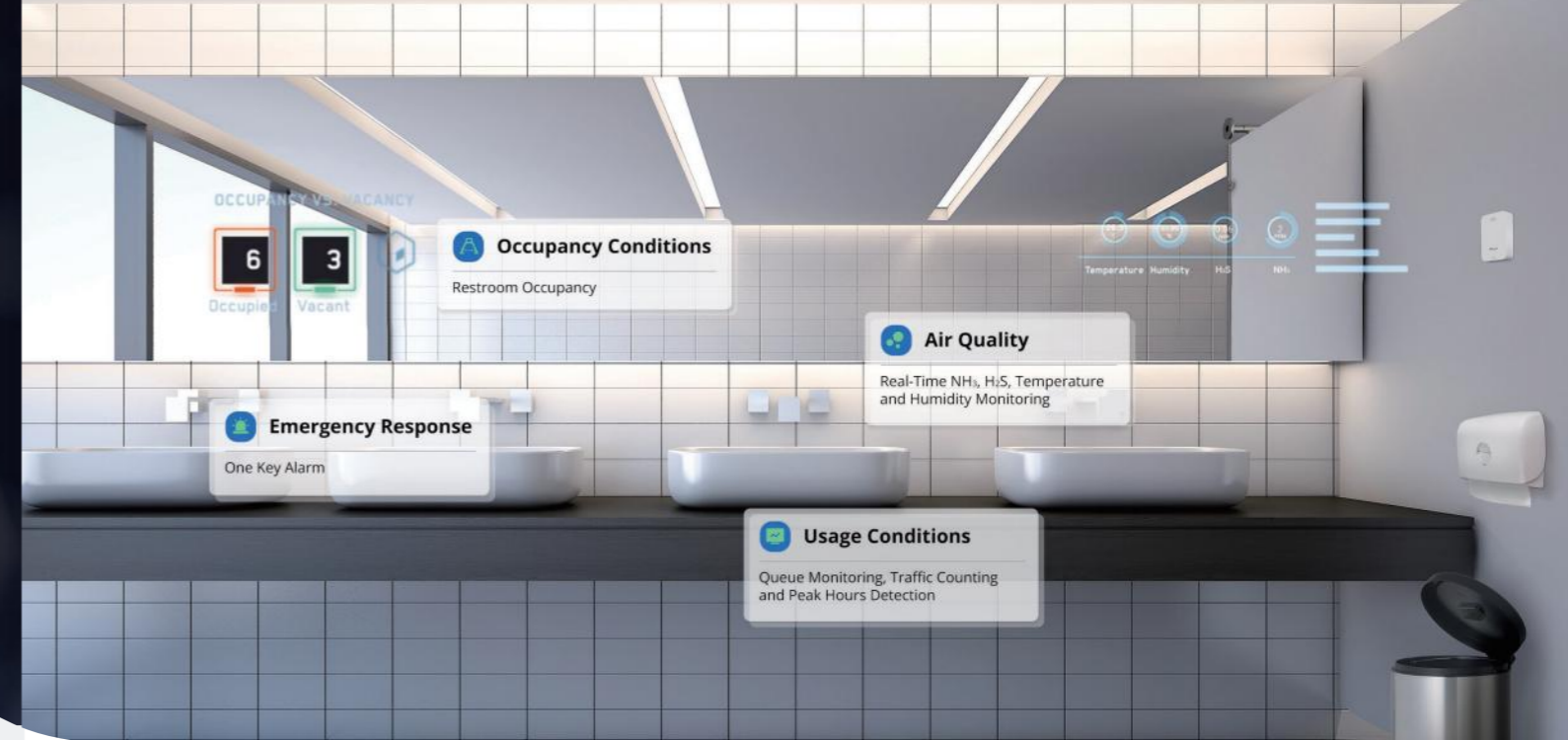


PoE Switch

- 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®



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 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 500 historical records and support retransmission to prevent data loss

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

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

iOS



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 Development Platform

Milesight Development Platform delivers enterprise-grade IoT device management and deployment, empowering efficient large-scale IoT implementations.

- Simplified device deployment through Redirect Provision Service (RPS)
- Bulk device configuration
- Remote access and device sharing
- Over-the-air updates
- Open API and Webhooks for external integrations and data exchange



MilesightVPN

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

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

