

- Make Sensing Matter ▪



Milesight IoT Product Brochure

V1.6



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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, Senet and many more
- Embrace easy interoperability with other network servers and clouds



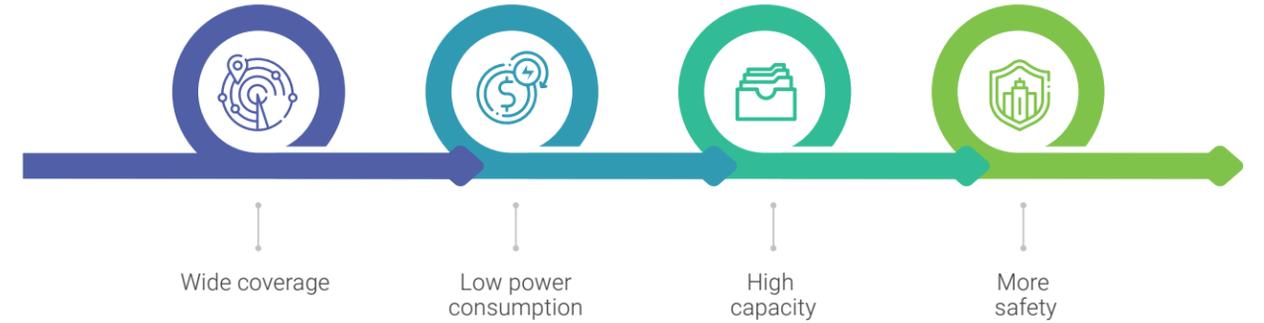
Worldwide Coverage

- 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.



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

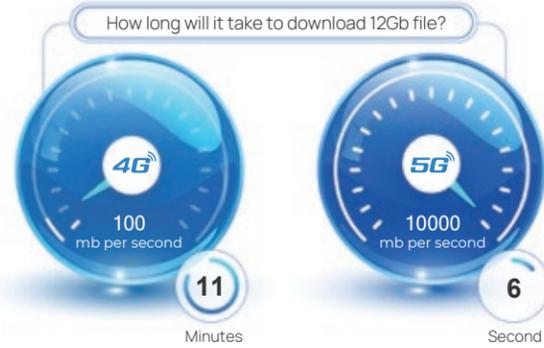


- Low latency (less than 1 second in the same room)
- Low power for battery operation of both sides
- Long range and as secure as LoRaWAN®
- No useless beaconing and difficult synchronization
- Initial feature which coexists with LoRaWAN®
- No additional hardware and LoRaWAN® gateways are needed



Why 5G

What Is 5G?



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 Mulesight 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, Mulesight 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



WHY Mulesight? Because We Make Sensing Matter



Capturing Meaningful Data Matters

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



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
- EM Series
- WS & WT & CT Series
- AM & GS Series

Smart Building

	ToF	Thermopile	PIR/IR Breakbeam	RGB	Radar
	VS13x-VS330	V351-V341	V340-V350-V360	V125-V121-V321	VS370
	Wireless Control	Light Control	IEQ Monitoring		
	WS101	WS156/WS136	WS50x	WS558	WS202
	Current Monitoring	Circuit Management & Power Collection			
	CT3xx	CT10x	WS51x	WS523	WS558
	Temperature Control		TH Monitoring		
	WT30x	WT201	WT101	WS203	EM300-TH
	9-in-1 IAQ Monitoring	Fill-level & Leakage Monitoring	Fill-level Monitoring	Cubicle Detection	
	AM300 Series	WS201-WS303	EM300-CL-EM400-TLD	VS330	
	3-in-1 IAQ Monitoring	9-in-1 IAQ Monitoring	Odor Detection		
	AM100 Series	AM300 Series	GS301(NH ₃ & H ₂ S)	GS101(CH ₄)	
	Leakage Monitoring				
	WS303	EM300-MLD	EM300-SLD/ZLD		
	Ultrasonic Distance Measurement		RGB		
	EM400-MUD	EM400-UDL	PM3322-E		

Smart Retail

	ToF	Thermopile	PIR/IR Breakbeam	RGB	Radar
	VS13x&VS330	V351&V341	V340&V350&V360	V125&V121&V321	VS370
	Temperature & Humidity Monitoring		3-in-1 IAQ Monitoring	9-in-1 IAQ Monitoring	Odor Detection
	EM300-TH	EM320-TH	AM100 Series	AM300 Series	GS301(NH ₃ & H ₂ S)

Smart City

	Ultrasonic Distance Measurement	ToF Distance Detection	Tilt Monitoring	Magnetic Contact
	EM400-MUD	EM400-TLD	EM320-TILT	EM300-MCS
	CO ₂ Monitoring	Illumination Monitoring	Water Level Monitoring	Picture Capture
	EM500-CO ₂	EM500-LGT	EM500-SWL	EM410-RDL
	Ultrasonic Distance Measurement	Pulse Detection	Pipe Pressure Detection	Picture Capture
	EM400-UDL	EM500-UDL	EM300-DI	EM500-PP
			X1	CT3xx

Smart Agriculture

	3-in-1 Soil Monitoring	Solenoid Valve		Illumination Detection Monitoring	CO ₂ Monitoring	Weather Station
	EM500-SMTC	UC51x		EM500-LGT	EM500-CO ₂	WT506

Logistics & Cold Chain

	Temperature & Humidity Monitoring				Temperature & Humidity Monitoring	
	EM320-TH	EM300-TH	TS30x		EM300-TH	TS201
	Temperature & Humidity Monitoring					
	EM320-TH	TS30x	TS201			

Smart Industry

	Temperature Monitoring			Ultrasonic Distance Measurement	Magnetic Contact	Industrial Signal Converter
	EM500-PT100	TS30x		EM400-UDL	EM500-UDL	EM300-MCS
						UC50x

Enable All-around Connectivity

Milesight IoT Gateway



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



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



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 Activity 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)

See the Unseen to Know Indoor Air Quality

IAQ Sensor



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)

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)



Empowering Efficient Energy Management

CT Series



Overall Features

- ▶ Self-powered operation
- ▶ Superior accuracy with up to 3.3kHz frequency
- ▶ Real-time accumulated ampere hour calculation
- ▶ Non-invasive installation
- ▶ Irregular current/temperature status alert
- ▶ LoRaWAN® wireless technology

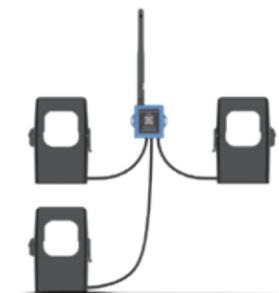
CT10x Smart Current Transformer



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

CT3xx Smart Current Transformer

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

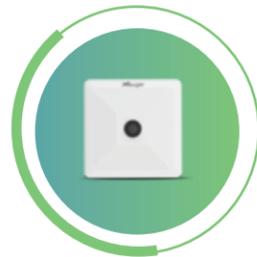


Smart People Counting That Matters in Buildings & Retail

Occupancy & People Counting Series



Space Occupancy



Space Occupancy Detection VS121 AI Workplace Occupancy Sensor

- Accuracy: Up to 99.5%
*Will be influenced by outdoor sunlight
*Not appropriate for some cubicles
- Technology: PIR, ToF
- Functionality: Bi-directional/Regional people counting, multi-zone occupancy detection
- Application: Workplace, cubicle

Wireless Cubicle Occupancy Detection VS330 Cubicle Occupancy Sensor

- Accuracy: Up to 99.8%
- Technology: AI, 2nd generation ToF
- Functionality: Bi-directional/Regional people counting, multi-zone occupancy detection
- Application: Retail, building, airport, supermarket



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

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

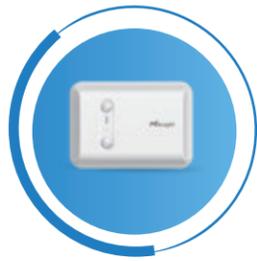
High-Ceiling Indoor and Semi-Outdoor People Counting VS135 Ultra ToF People Counter

- Accuracy: Up to 99.8%
- Technology: AI, 2nd generation ToF
- Functionality: Bi-directional/Regional people counting, dwell time detection
- Application: Retail, building, airport, supermarket



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, gender and expression recognition
- Application: Retail, building, airport, supermarket

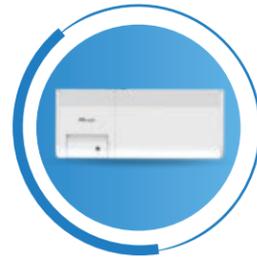


Wireless Indoor Passage People Counting VS350 Passage People Counter

- 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 99.8%
- 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: ~80%
- Technology: IR breakbeam
- Functionality: Bi-directional people counting
- Application: Open space people counting



Environmental Sensing with Radar Technology

EM410-RDL Radar Distance Detector



- Millimeter-wave radar technology
- Up to 20m detection range, 60GHz, 8°
- High dust protection level
- Battery-powered
- Sewer level detection

LoRaWAN® Fall Detector

- Radar technology
- Judge fall status
- Type-C/ PoE for frequent supervising
- Safety protection
- Healthcare centers



Smart Heating and Cooling Controls

WT Series



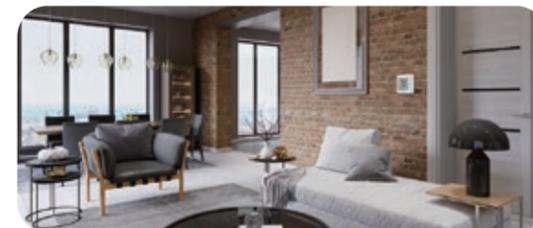
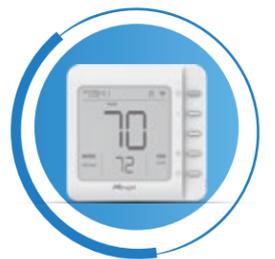
WT101 Smart Radiator Thermostat

- 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



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



Schools



Modern Buildings

Monitor Conditions and Optimize Controls

EM300 Series - Environment Monitoring Sensor



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
- $\pm 0.3^{\circ}\text{C}$ high accuracy of temperature and $\pm 3\%$ RH of humidity
- Data retrieval and data retransmission



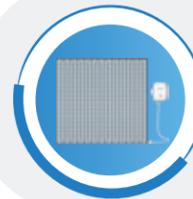
EM300-SLD/ZLD Leak Detection Sensor

- 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



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

- $\pm 0.2^{\circ}\text{C}$ 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



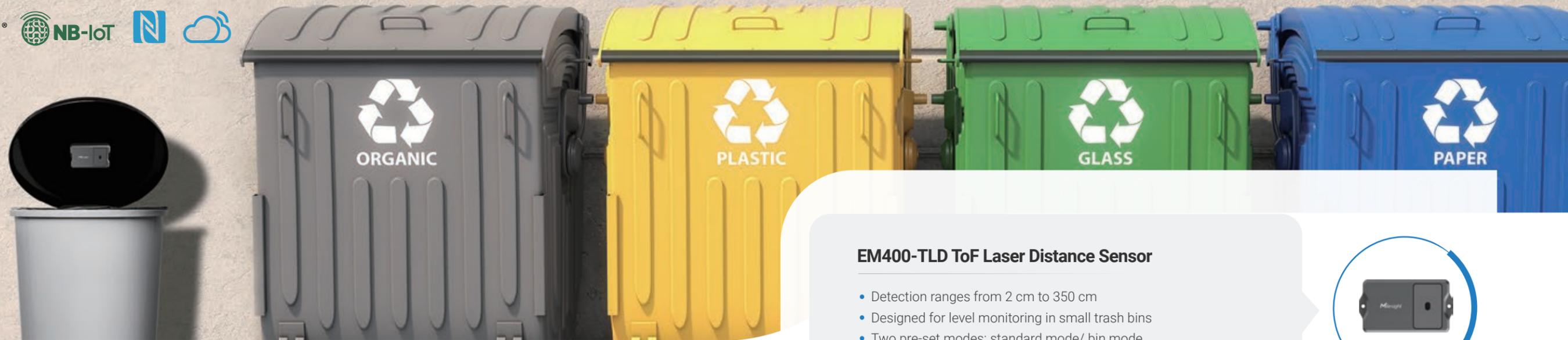
EM320-TILT FDA Approved Tilt Sensor

- 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



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



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



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-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-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-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 $\pm 0.5\%$ 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



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®



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®



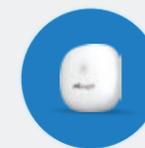
WS523 Portable Socket

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



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®



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®



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

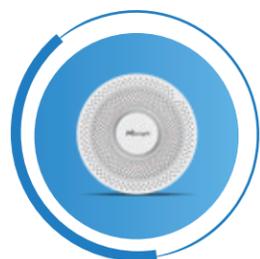


GS101 LoRaWAN® Gas Detector

- 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

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®



GS601 Vape Detector

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

Integrate Connectivity and Applications in One

DS Series



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



Deployment with Ease

Milesight Accessories



FT101 Milesight 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



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 2,800 sets of data logging
- Comply with EN12830 standard
- Average battery life: 3 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

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

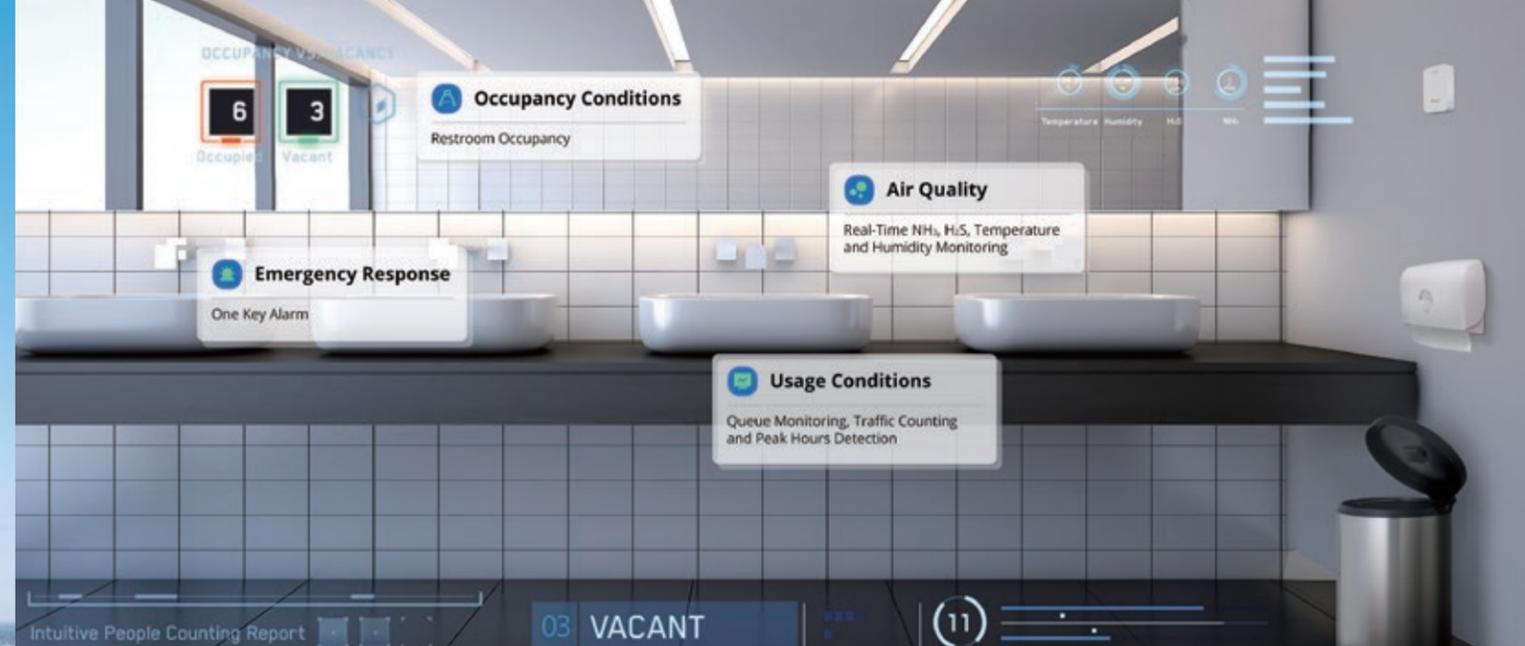


AT101 Outdoor Asset Tracker

- 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

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

iBox IAQ Kit
Indoor Air Quality Solution

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

iBox Smart Building Kit
Smart Building Solution

· VS121 · VS340
 · DS3604 · UG56
 · Milesight IoT Cloud
 *Enjoy free cloud services for a specified period of time

iBox CoWork Kit
Smart Office Solution

· VS121 · WS101
 · WS301 · WS156
 · UC100 · UG56
 · Milesight IoT Cloud
 *Enjoy free cloud services for a specified period of time

iBox CoWork Kit
Smart Office Solution

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

iBox Smart Restroom Kit
Smart Restroom Solution

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

iBox Smart Agriculture Kit
Smart Agriculture Solution

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

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

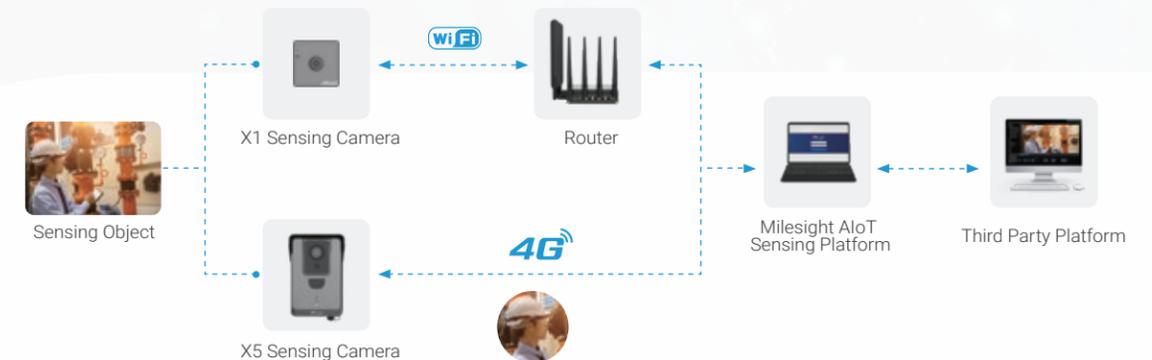
X5 Sensing Camera for Outdoor Applications

- 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

Sensing Objects

- Build a sensing object from different Telemetry data of different devices
- Search historical data of sensing objects

Trigger

- Low battery and inactive status trigger alarm push
- Multiple HTTP and MQTT receivers can be set

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)

Open APIs

- Normalize all data of the sensing object
- Support data output to third-party platforms for secondary applications

OTA Update

- Batch hardware updating
- Configuration files batch importing

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 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 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

