Make Sensing Matter

PRODUCT CATALOG

Milesight Multi-potential Sensing Products

MAKE SENSING MATTER

WHY Milesight?
Because We Make Sensing Matter
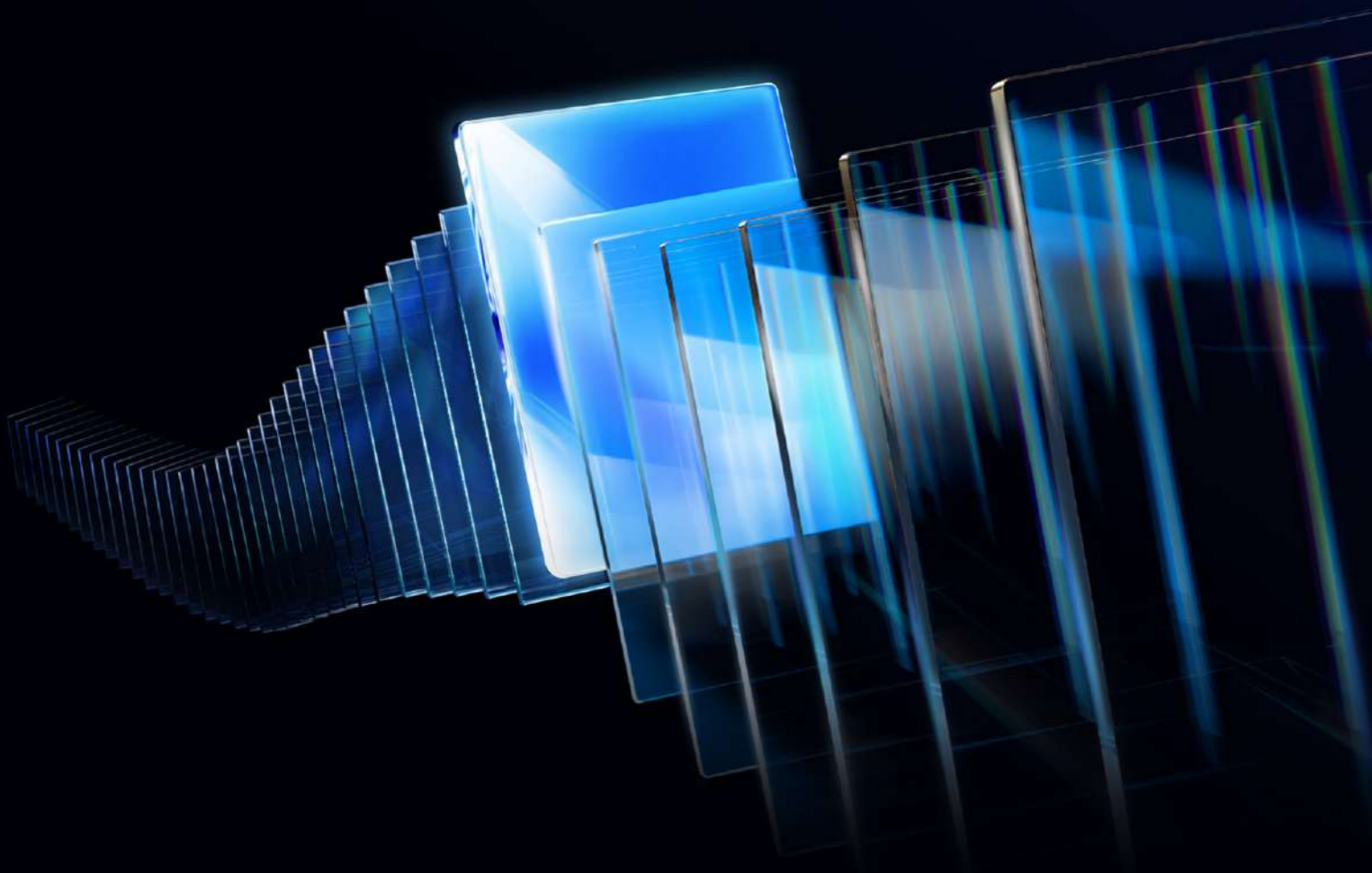
Capturing Meaningful Data Matters

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.

INTELLIGENCE - AI Empowers Security

- Accuracy
- Focus on Human / Vehicle
- Various Application
- Deep Learning

| AI Video Analytics | Object Counting | Face Detection | Fire Smoke Detection | Hard Hat Detection | Intrusion Detection |

IMAGE - Embrace Sharper Vison Even at Night

- 4K/12MP High Resolution
- 0.001Lux Starlight
- Smart IR II Technology
- 3 in 1 Super WDR
- Hightlight / Backlight Compensation

| High-quality Deblur | P-Iris Control | Comprehensive Defogging |
| SONY STARVIS 2.0 | Corridor Mode | EIS Electronic Image Stabilization |

STRUCTURE - Resilient & Optimal Performance in Any Circumstance •••

Two Colors Available

Smoked Dome Cover

Built-in Microphone

Clamshell Design

microSD/SDHC/SDXC Card Slot
Reset Button
DC 12V
Alarm I/O & Audio Out & DC 12V
Ethernet Port (PoE)
Cable Management
Water-proof Connector

90°

IP67 | IK10 | -40°C | 60°C | 6KV | EN50155

(Milesight AI Motorized Pro Dome Camera)

INTEROPERABILITY - Extensive Compatibility •••

Various Protocols Supported

IPv4/IPv6, SIP, ARP, TCP, UDP, RTCP, RTP, RTSP, RTMP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL

SIP / VoIP

Integrate Milesight Network Cameras with SIP protocol into VoIP systems for a secure, cost-effective, and easily managed solution, enabling features like alarm push notifications and live camera views via mobile apps or VoIP telephones.
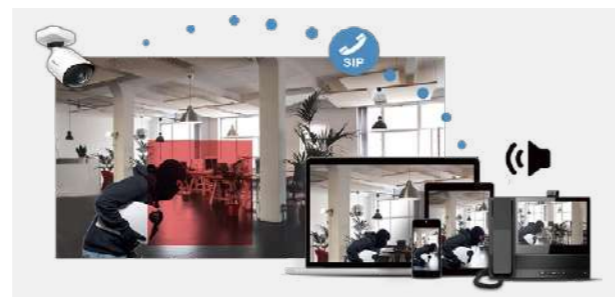
ONVIF Profile G/M/S/T

Easy to be integrated into security systems on the basis of the ONVIF protocols by supporting ONVIF profile G/M/S/T.

ONVIF GMST

Milesight Video Surveillance Software

Integrated and simplified video management, covering device connectivity, remote management, data analysis, and decision-making.

Third-party Compatibility

Offer more flexibility to users by deepening communication with different security system through CGI / API.
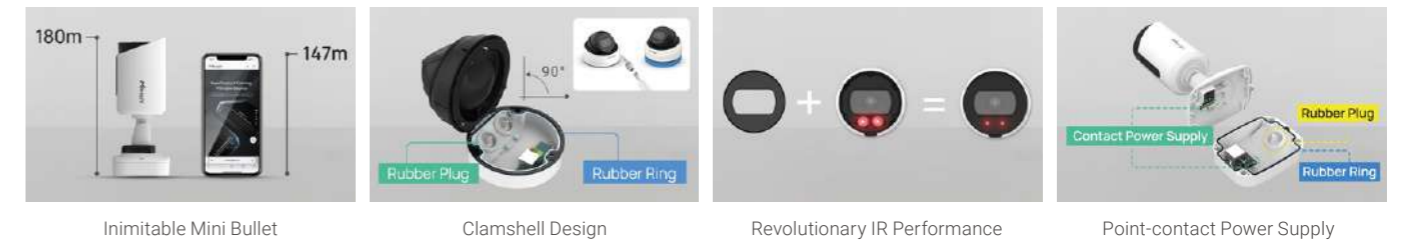

AI NETWORK CAMERA •••

AI MINI SERIES

Small in Size, Big on Intelligence

Introducing Milesight compact yet powerful entry-level mini cameras. With sleek design and advanced features, they offer exceptional performance. Capture clear and detailed footage with high-resolution image quality and versatile functionality. Perfect for home monitoring and small-scale installations, our mini cameras provide reliable surveillance solutions.

ONVIF GMST | AI AI | IP67 | IK10

180m — 147m

Inimitable Mini Bullet | Clamshell Design | Revolutionary IR Performance | Point-contact Power Supply

AI Motorized Dome Camera

- 2/5/8 MP
- Motorized Zoom Lens
- 60fps High Frame Rate
- 120dB Super WDR
- 50m IR Distance
- Built-in Microphone Audio I/O, Alarm I/O, PoE & DC 12V
- Integrated Junction Box

AI Motorized Bullet Camera

- 2/5/8 MP
- Motorized Zoom Lens
- 90fps High Frame Rate
- 140dB Super WDR
- 50m IR Distance
- Audio I/O, Alarm I/O, PoE & DC 12V
- Integrated Junction Box

AI Vandal-proof Mini Dome Camera

- 2/5/8 MP
- 60fps High Frame Rate
- 120dB Super WDR
- 30m IR Distance
- Built-in Microphone Audio I/O, Alarm I/O, PoE & DC 12V
- Reliable Anti-vibration Performance

AI Vandal-proof Mini Bullet Camera

- 2/5/8 MP
- 60fps High Frame Rate
- 120dB Super WDR
- 0.005Lux Starlight
- 30m IR Distance
- Point-contact Power Supply
- Integrated Junction Box

AI Weather-proof Mini Dome Camera

- 2/5/8 MP
- 60fps High Frame Rate
- 120dB Super WDR
- 25m IR Distance
- Built-in Microphone
- Clamshell Design
- Recessed Installation
- Integrated Junction Box

AI Weather-proof Mini Bullet Camera

- 2/5/8 MP
- 60fps High Frame Rate
- 140dB Super WDR
- 0.005Lux Starlight
- 50m IR Distance
- Audio I/O, Alarm I/O, PoE & DC 12V
- Unique Sunshield Design

AI IR Mini Dome Camera

- 2/5/8 MP
- 60fps High Frame Rate
- 120dB Super WDR
- 0.005Lux Starlight
- 20m IR Distance
- Built-in Microphone
- Ultra-mini Size
- Screw-free Design
- Recessed Installation

AI Color+ Vandal-proof Mini Bullet Camera

- 2/5/8 MP
- Full-color Image Performance
- Amazing Image Effect with F1.0 Aperture
- 0.001 Lux Ultra Low-light
- Up to 30m Illuminator Distance
- 3-Axis Mechanical Design
- Point-contact Power Supply

AI NETWORK CAMERA

AI PRO SERIES

Precision Perfected, Pro Excellence Embodied

With advanced features and enhanced capabilities, Milesight Pro Series cameras redefine excellence. Experience extended infrared distance, a wide range of interface options and a wide choice of lenses for ultimate flexibility. With superior performance and cutting-edge technology, Milesight Pro cameras deliver exceptional image quality that accurately captures every detail. Whether it's for large-scale surveillance projects or specialised applications, you can rely on the Milesight Pro Series to meet the needs of professionals who demand the highest levels of performance and versatility.

ONVIF | CMST | AI AI | IP67 | IK10 | Starlight
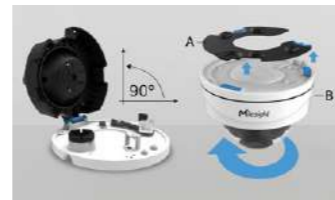
Smart IR II Technology
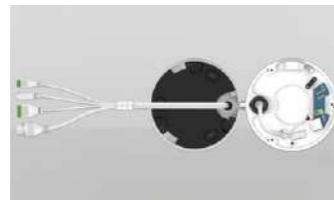
Versatile Interfaces:
Audio I/O, Alarm I/O, PoE & DC 12V

Recessed Installation

Efficient & Simple Installation

AI 4X/12X Pro Bullet Plus Camera

- 2/4/5/8 MP
- 1/1.8" STARVIS Starlight Sensor
- 4X/12X Optical Zoom
- 90fps High Frame Rate
- 140dB Super WDR
- Smart IR II with 180m IR Distance
- Integrated Junction Box

AI Motorized Pro Bullet Plus Camera

- 2/4/5/8 MP
- 1/1.8" STARVIS Starlight Sensor
- Motorized Zoom Lens
- 90fps High Frame Rate
- 140dB Super WDR
- Smart IR II with 100m IR Distance
- Robust Structural Design & Advanced AI Capabilities
- Integrated Junction Box

AI Motorized Pro Bullet Camera

- 2/5/8 MP
- 1/1.8" STARVIS Starlight Sensor
- Motorized Zoom Lens
- 90fps High Frame Rate
- 140dB Super WDR
- Smart IR II with 100m IR Distance
- Integrated Junction Box

AI Motorized Pro Dome Camera

- 2/4/5/8 MP
- 1/1.8" STARVIS Starlight Sensor
- Motorized Zoom Lens
- 90fps High Frame Rate
- 140dB Super WDR
- Smart IR II with 90m IR Distance
- Recessed Installation
- Clamshell Design
- Smoked Dome Cover

AI Pro Box Plus Camera

- 2/4/5/8 MP
- Various Zoom Lens Supported
- 0.001Lux Ultra Low-light
- 60fps High Frame Rate
- 140dB Super WDR
- Audio I/O, Alarm I/O, PoE & DC 12V
- Protective Housing (Optional)

AI NETWORK CAMERA

AI PTZ SERIES

Intelligent PTZ to Transform Your World

Milesight PTZ cameras revolutionize versatility and control. With the ability to pan, tilt and zoom, Milesight cameras offer precise navigation and focus on areas of interest. Experience high-resolution imaging, powerful zoom capabilities, and intelligent tracking for exceptional surveillance performance. Perfect for large-scale installations, public safety, or critical infrastructure, Milesight PTZ cameras provide flexibility and control to capture every detail effectively.

ONVIF | CMST | AI AI | IP67 | IK10

PTZ Privacy Mask

IR Anti-reflection Design

PTZ Auto Tracking

3D Positioning & Keyboard Control

AI 12X PTZ Bullet Camera

- 2/5 MP
- 140dB Super WDR
- 90fps High Frame Rate
- 360° Endless Pan & 75° Tilt
- Smart IR II with 140m IR Distance
- PTZ Auto Tracking
- Intelligent White LED
- Audio I/O, Alarm I/O, PoE & DC 12V

Wall Mount   Pedestal Mount

AI 12X/20X/23X PTZ Bullet Plus Camera

- 2/4/5/8 MP
- 0.002Lux @ 1/1.8" STARVIS Sensor
- 140dB Super WDR
- 90fps High Frame Rate
- 360°Endless Pan & 75°Tilt
- Smart IR II with 180m IR Distance
- PTZ Auto Tracking
- Audio I/O, Alarm I/O, PoE & DC 12V
- New-generation PTZ Motor
- High Horizontal Accuracy: <0.5 Degrees
- High Vertical Accuracy: 0.3~0.5 Degrees

AI 12X/20X/23X PTZ Dome Camera

- 2/4/5 MP
- 0.002Lux @ 1/1.8" STARVIS Sensor
- 140dB Super WDR
- 90fps High Frame Rate
- 360°Endless Pan & 95°Auto-flip Tilt
- Pan Speed 450°/s, Tilt Speed 360°/s
- Smart IR II with 160m IR Distance
- PTZ Auto Tracking
- Audio I/O, Alarm I/O, PoE & DC 12V
- IR Anti-reflection Design
- Recessed Installation

AI 25X/30X/36X/42X Speed Dome

- 2/4/5/8 MP
- 0.002Lux @1/1.8" STARVIS Sensor
- 100fps High Frame Rate
- 360°Endless Pan & 95°Auto-flip Tilt
- High Horizontal Accuracy: 0.1 Degrees
- Pan Speed 400°/s, Tilt Speed 320°/s
- Smart IR II with 200/300m IR Distance
- Audio I/O, 4*Alarm In, 2*Alarm Out，PoE & AC 24V
- Smart Rain-sensing Wiper (Optional)

AI NETWORK CAMERA

AI PANORAMIC SERIES

Boundless World, Truly Within Reach

Milesight Panorama Series cameras revolutionise the way you see the world. Capture complete 180/360-degree panoramic views with advanced technology, revealing every detail and eliminating blind spots. Ideal for surveillance, virtual tours, or capturing breathtaking landscapes, these cameras offer unparalleled performance and versatility. Elevate your visual exploration with Milesight Panoramic Series.

ONVIF | CMST | AI All | IP67 | IK10 | Starlight

Stunning Dewarping Ability | People Flow Analytics | Delicate & Exquisite Design | Various Accessories For Easy Installation

AI 360° Panoramic Fisheye Camera

- 4K/12MP
- 1/1.8" Sony STARVIS 2 Sensor
- On-board/Client-side Dewarping
- Fisheye Auto Tracking
- Advanced Heat Map
- Smart IR II with 15m IR Distance
- Built-in Microphone, Audio I/O, Alarm I/O, PoE & DC 12V
- Screw-free Design
- Ceiling Mount/Wall Mount/Flat Mount

AI 180° Panoramic Mini Bullet Camera

- 5MP/4K
- Advanced Heat Map
- 180° IR Coverage
- New Generation Panoramic IR Technology
- Smart IR II with 15m IR Distance
- Ultra Mini Size - 95.8mmX74mmX158.5mm
- Built-in Microphone

AI 180° Panoramic Mini Dome Camera

- 5MP/4K
- Advanced Heat Map
- 180° IR Coverage
- New Generation Panoramic IR Technology
- Smart IR II with 15m IR Distance
- Built-in Microphone
- Integrated Junction Box

AI Dual-sensor 180° Panoramic Camera

- Exceptional 2*4MP Image
- Intelligent Analytics Integration
- 180° Stitched Panoramas
- Wide-Angle Perspective
- Seamless Dual-View Monitoring
- Smart IR II with 30m IR Distance
- Built-in Microphone
- Ceiling Mount / Wall Mount

AI 5G SERIES

Empower the Future of Smart Connectivity

Milesight takes security to the next level by combining AI deep learning with cutting-edge 5G and IoT technology in the 5G AIoT Camera. This powerful hybrid solution provides seamless remote video surveillance with high-definition feeds and minimal latency. By aggregating video insights and data from IoT devices, it enables situational awareness and delivers analytics-driven insights. Experience the future of security with Milesight's 5G AIoT Camera, where advanced technologies converge for unparalleled performance.

ONVIF | CMST | AI All | IP67 | IK10 | 5G | IoT

4K High Resolution | 5G High Bandwidth | 5G Low Latency | 5G Broad Extensibility | 5G High Mobility | Embedded AIoT Technology

CLOSE-LOOP VIDEO MANAGEMENT

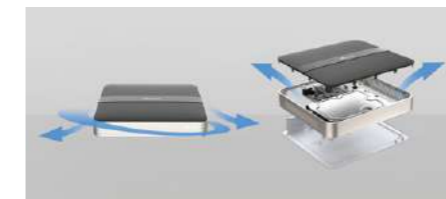NVR ← IPC → VMS/CMS/APP

*NVR CANNOT connect to VMS/CMS/APP
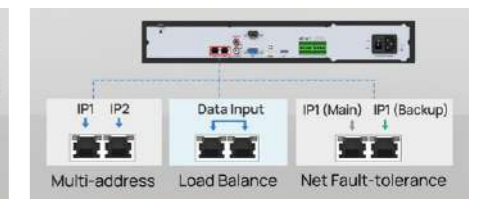
NVR

Superior Video Management

Milesight 4K H.265 NVR Series offers a robust system for diverse applications and empowers to configure and manage advanced IP surveillance systems with ease and extreme reliability. Based on cutting-edge technology, Milesight NVRs feature great user-experience in video recording, live view and playback, bringing you the high-efficient and all-in-one solution.
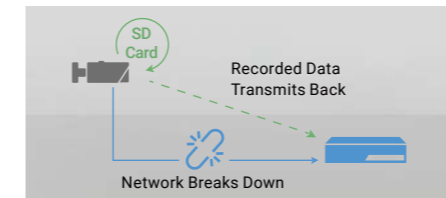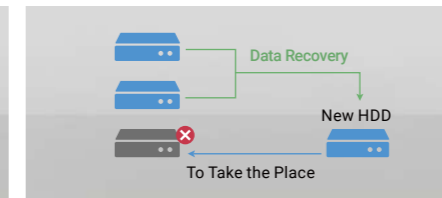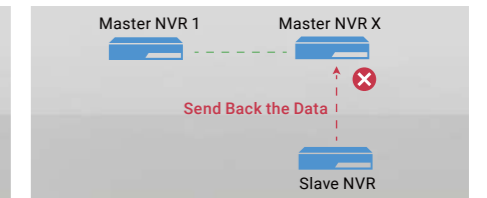
Thermal Design | Multi-video Output | Dual Lan Giga Network Ports

IP1 IP2 | Data Input | IP1 (Main) IP1 (Backup)
Multi-address | Load Balance | Net Fault-tolerance

SD Card — Recorded Data Transmits Back — Network Breaks Down

Data Recovery — New HDD — To Take the Place

Master NVR 1 — Master NVR X — Send Back the Data — Slave NVR

ANR | RAID | N+1 Hot Spare

4K H.265 Mini NVR 1000 Series

- 4/8-CH Network Video Input
- Up to 10TB Storage & NAS
- 4K Decoding Capabilities
- Dual Stream Recording
- AI VCA Management & POS Integration
- Thermal Design
- ANR

4K H.265 Pro NVR 5000 Series

- 8/16-CH Network Video Input
- Up to 2*10TB Storage & NAS
- 4K Decoding Capabilities
- Dual Stream Recording
- AI VCA Management & POS Integration
- Enterprise ANPR Management
- ANR

4K H.265 Pro NVR 7000 Series

- 16/32-CH Network Video Input
- Up to 4*10TB Storage & NAS
- 4K Decoding Capabilities
- Dual Stream Recording
- AI VCA Management & POS Integration
- Enterprise ANPR Management
- Dual Lan Giga Network Ports
- Multi-video Output
- ANR/RAID/N+1 Hot Spare

4K Pro NVR 8000 Series

- 32/64-CH Network Video Input
- Up to 8*10TB Storage & NAS
- 4K Decoding Capabilities
- Dual Stream Recording
- AI VCA Management & POS Integration
- Enterprise ANPR Management
- Dual Lan Giga Network Ports
- Multi-video Output
- ANR/RAID/N+1 Hot Spare

MILESIGHT BACK-END SOLUTION

PoE **PoE** **PoE** **PoE**

4K H.265 Mini PoE NVR 1000 Series
- 4*PoE Plug & Play
- 4/8-CH Network Video Input
- Up to 10TB Storage & NAS
- 4K Decoding Capabilities
- Dual Stream Recording
- AI VCA Management & POS Integration
- Thermal Design
- ANR

4K H.265 Mini PoE NVR 5000 Series
- 8*PoE Plug & Play
- 8/16-CH Network Video Input
- Up to 2*10TB Storage & NAS
- 4K Decoding Capabilities
- Dual Stream Recording
- AI VCA Management & POS Integration
- Enterprise ANPR Management
- ANR

4K H.265 Mini PoE NVR 7000 Series
- Up to 24*PoE Plug & Play
- 16/32-CH Network Video Input
- Up to 4*10TB Storage & NAS
- 4K Decoding Capabilities
- Dual Stream Recording
- AI VCA Management & POS Integration
- Enterprise ANPR Management
- Multi-video Output
- ANR/RAID/N+1 Hot Spare

16/32/64-CH 6Bay Enterprise NVR
- 16/32-CH Models Available, 64-CH Coming Soon
- Pre-loaded with Milesight VMS Enterprise
- Windows System
- Central Management for Single Site & Multiple Sites
- High Scalability
- AI & IoT Capabilities
- Ready-to-go Design for Easy Installation
- N+M Failover

VMS
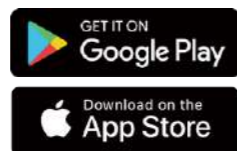
Manage Anytime with M-VMS Mobile

M-VMS Mobile

CMS

Milesight CMS
- A central management system for Milesight cameras and Milesight NVRS
- Fully integrated with Milesight network cameras and NVRs
- Comprehensive management via IP/Domain, P2P and Milesight DDNS
- Support H.265/H.264 video compression
- Support multiple monitors (Up to 4 monitors, 64-CH for each monitor)
- Support up to 256 devices
- Support two-layer E-map
- Support Milesight VCA functions
- Support advanced functions like ANPR solution, Heat Map and Auto Tracking, etc.
- Support Crowd Management Solution

APP

M-Sight Pro APP
- Simultaneously managing Milesight network cameras and NVRs
- Support Milesight Cloud Management
- Smooth and High Quality Live Streaming
- Support image capture/video recording functions File management
- Efficient Split Playback
- Transcoding to get better playback performance
- Support scanning QR code to get a remote view via P2P
- Support iOS and Android handheld device
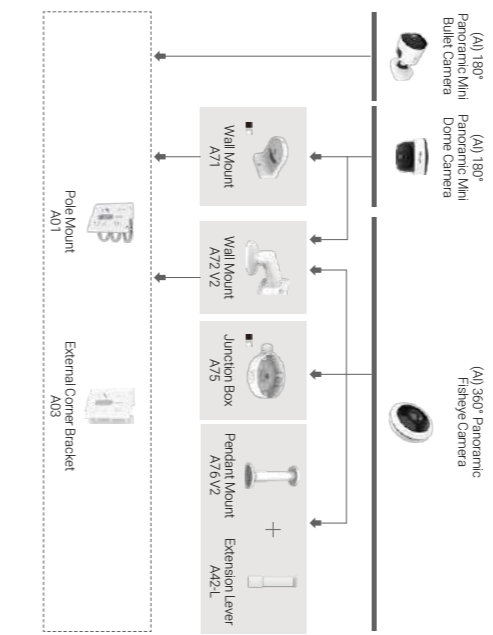- Support alarm video push notification
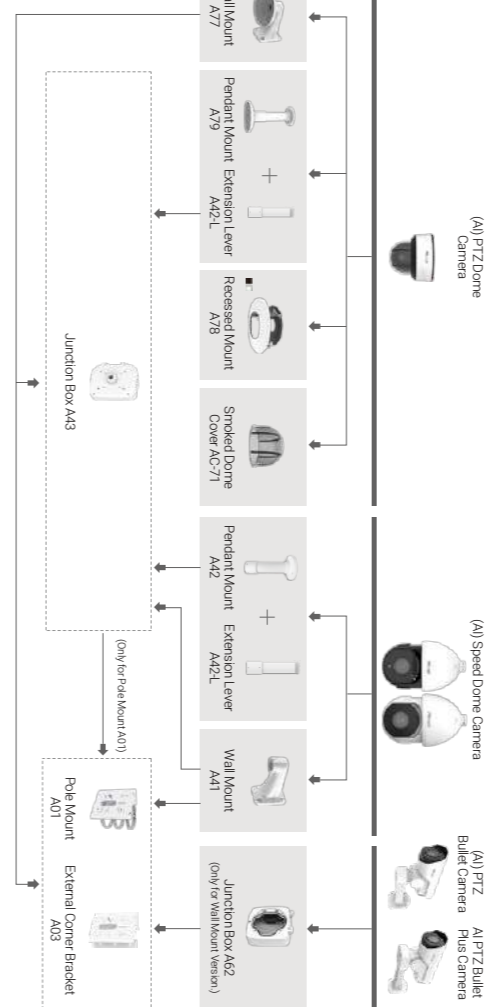
TOOLS

Milesight Smart Tools
- Unified management for network cameras and NVRs
- Batch settings for Milesight devices
- Online batch upgrade for Milesight devices
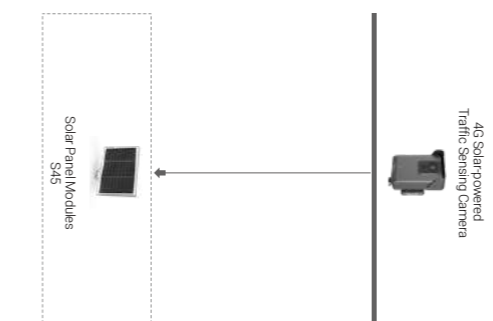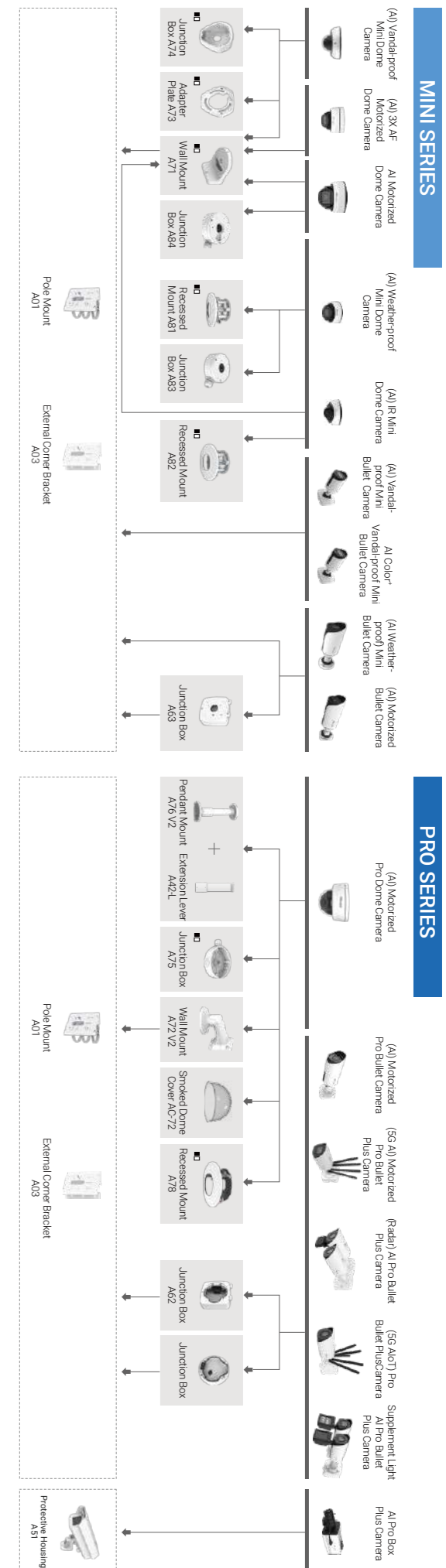- Fast, comprehensive and powerful calculation

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Milesight ACCESSORIES MAP

V7.5

MINI SERIES

PANORAMIC SERIES

PRO SERIES

PTZ SERIES

SPECIAL ACCESSORIES

See the Unseen to Know Indoor Air Quality

IAQ Sensor
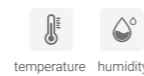
LoRaWAN CERTIFIED™

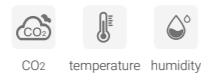Smart Classroom

Smart Supermarket

Smart Hospital

2-in-1 | AM102/AM102L

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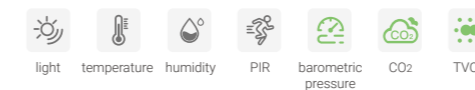- Cost-effective bulk deployment

temperature   humidity

3-in-1 | AM103/AM103L

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

CO2   temperature   humidity

7-in-1 | AM107

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

light   temperature   humidity   PIR   barometric pressure   CO2   TVOC

7/8/9-in-1 | AM307(L)/AM308(L)/AM319(L)

- Traffic light indicator & buzzer
- Higher accuracy & Smart screen mode
- Anti-theft protection
- Data retrieval and data retransmission
- 4.2-inch E-ink screen (AM307/AM308/AM319)
- Vivid emoticon indication (AM307/AM308/AM319)
- Powered via USB Type-C(AM319/AM319L)
- Battery life up to 3 years (AM307) / 1 year (AM308)
- Battery life up to 4 years (AM307L) / 1.5 year (AM308L)
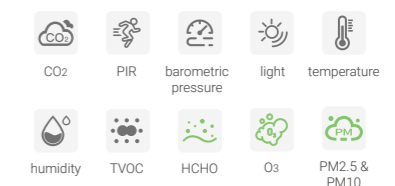
CO2   PIR   barometric pressure   light   temperature

humidity   TVOC   HCHO   O3   PM2.5 & PM10

100% Anonymous Monitoring

Occupancy & People Counting Series

LoRaWAN® | N | PoE | D2D | ToF

VS135 Ultra ToF People Counting Sensor

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

VS121 AI 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®

VS330 Cubicle Occupancy Sensor

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

VS133 AI ToF People Counting Sensor

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

VS340/VS341 Desk & Seat Occupancy Sensor

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

VS350 Passage People Counter

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

Smart Heating and Cooling Controls

WT Series

**LoRaWAN®**   N   ☁   **D2D**

WT101 Smart Radiator Thermostat

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

Schools

Modern Buildings

WT201 Smart Thermostat

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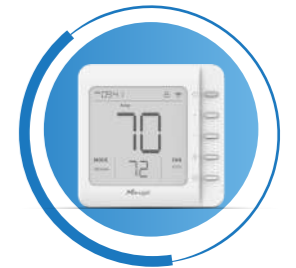
Modern Apartments

Building

WT30x Smart Fan Coil Thermostat

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

Monitor Conditions and Optimize Controls

EM300 Series - Environment Monitoring Sensor

LoRaWAN®

Overall Features

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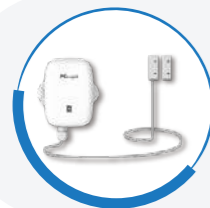▶ Battery Life up to 5 Years
▶ Easy Configuration via NFC

Smart Office

Smart Hotel

EM300-DI Pulse Counter

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

EM300-MCS Magnetic Contact Switch Sensor

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

EM300-CL Capacitive Level Sensor

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

EM300-TH Temperature & Humidity Sensor

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

EM300-SLD/ZLD Leak Detection Sensor

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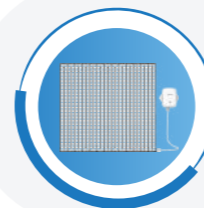
EM300-MLD Membrane Leak Detection Sensor

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

EM310-TILT Tilt Sensor

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

EM310-UDL Ultrasonic Distance/Level Sensor

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

🔥 EM320-TH Temperature & Humidity Sensor

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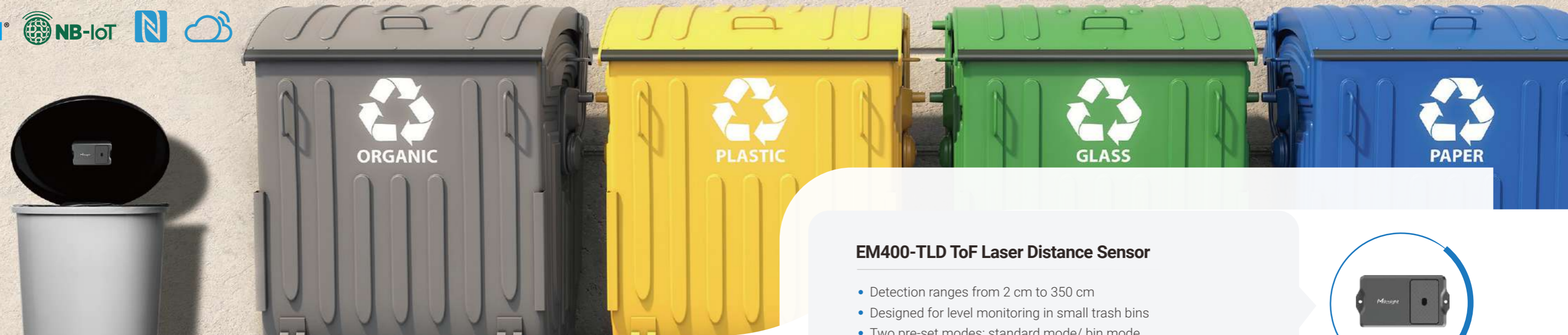- Data retrieval and data retransmission

EM320-TILT FDA Approved Tilt Sensor

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

Revolutionizing Measurement and Monitoring

EM400 Series Distance/Level Measurement Sensor

LoRaWAN® NB-IoT NFC

EM400-TLD ToF Laser Distance Sensor

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

Overall Features

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

EM400-MUD Multifunctional Ultrasonic Distance Sensor

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

Smart Parking Lot

Boiler Expansion Monitoring

EM400-UDL Ultrasonic Distance Sensor

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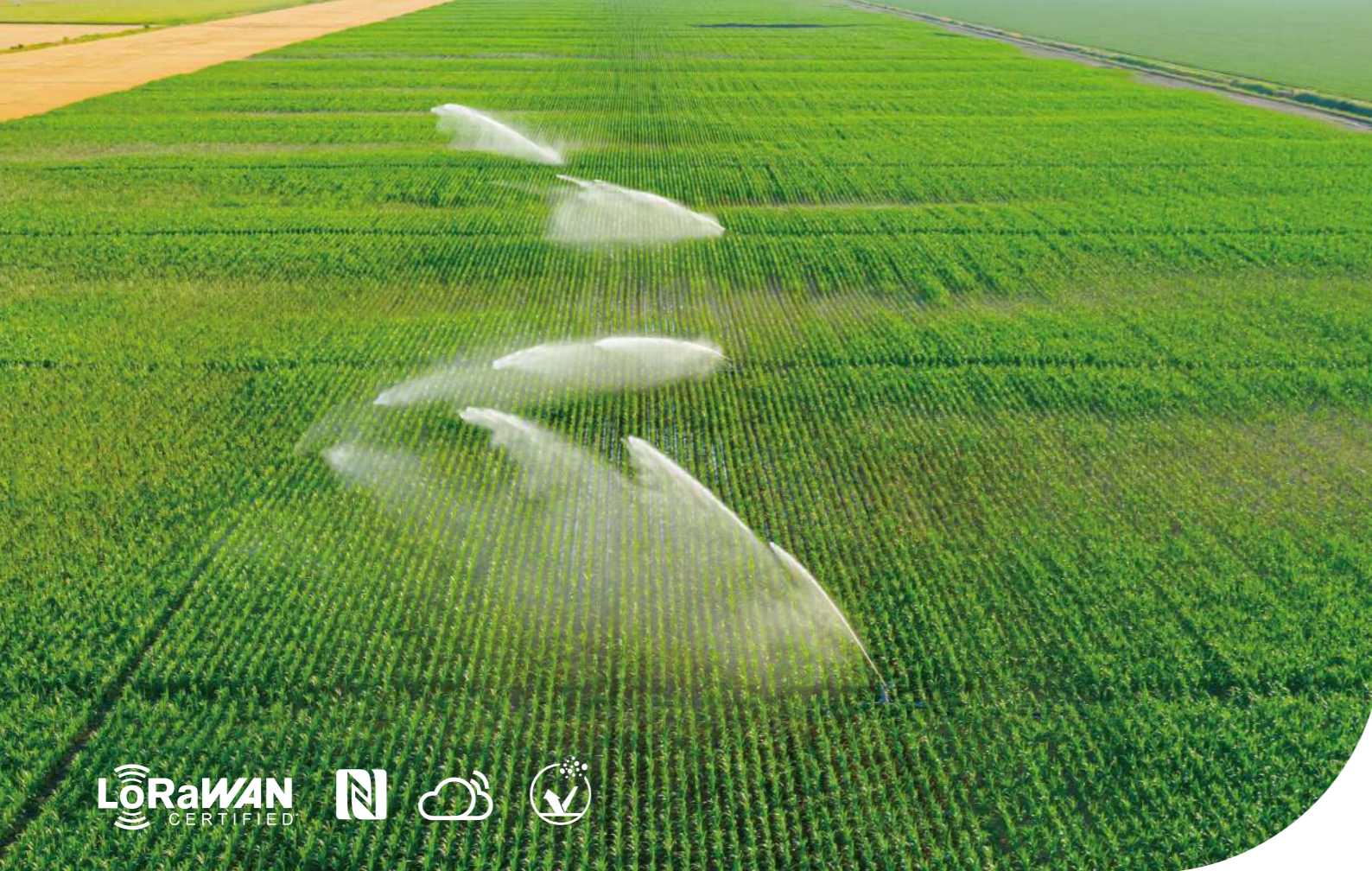
Reliable Data Collection for Long-term Remote Operation

EM500 Series - Outdoor Environment Monitoring Sensor

LoRaWAN CERTIFIED

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 (CO_2, 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

The Workplace of the Future - Safer and Smarter

CoWork Series

LoRaWAN CERTIFIED · D2D · N · ☁

WS203 Motion & TH Sensor

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

WS301 Magnetic Contact Switch Sensor

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

WS302 Sound Level Sensor

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

WS303 Mini Leak Detection Sensor

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

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)

WS50x Wall Switch

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

WS51x Smart Wall Socket

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

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

WS523 Portable Socket

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

WS558 Smart Light Controller

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

Sense the Invisible Danger

GS Series

LoRaWAN® | **N** | **D2D**

GS101 LoRaWAN® Gas Detector

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

GS301 LoRaWAN® Bathroom Odor Detector

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

Integrate Connectivity and Applications in One

DS Series

LoRaWAN® | **N**

DS3604 IoT E-ink Display

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

| Office | Restroom | Hospital |

CT101/CT103 Smart Current Transformer

CT Series

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

Professional Temperature Monitoring

TS Series
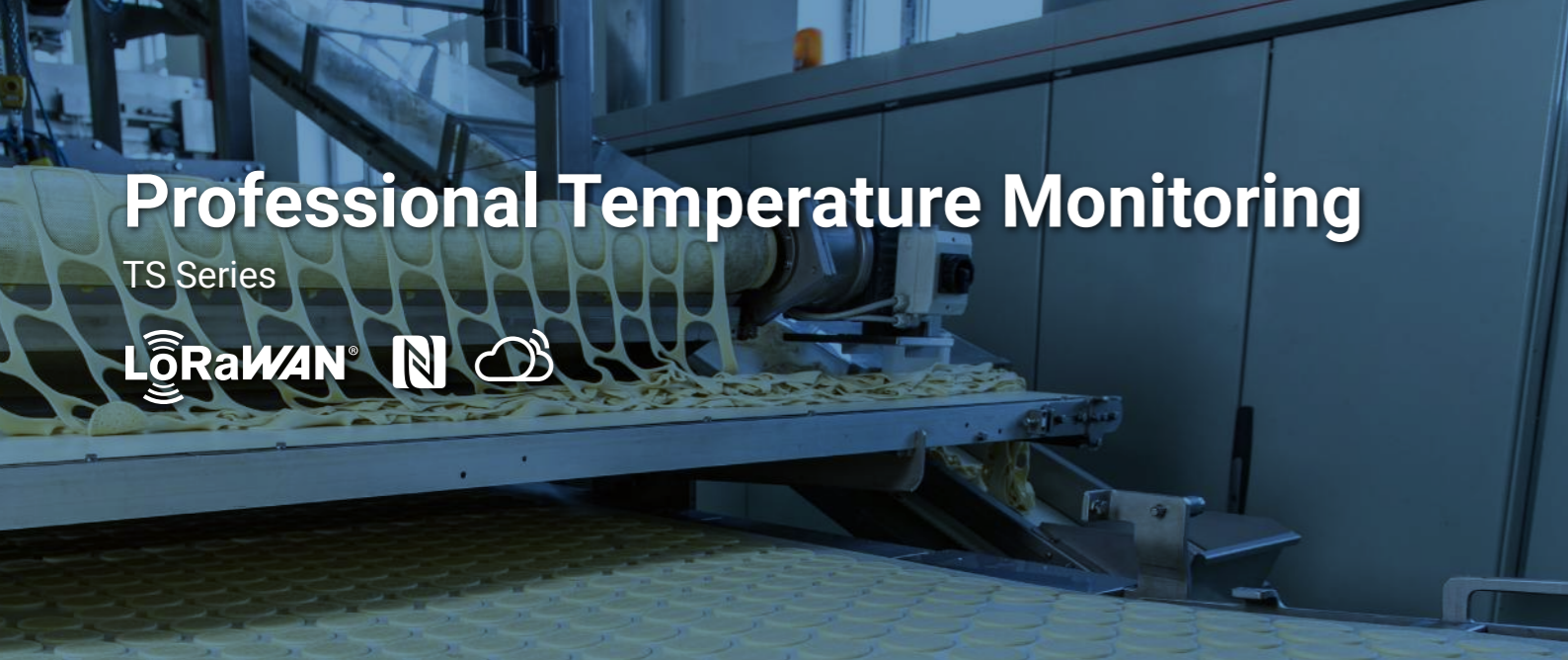
LoRaWAN® | N | ☁

TS101 Insertion Temperature Sensor

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

TS30x LoRaWAN® Temperature Sensor

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

High Capacity, Long Endurance, Plug and Play

IP67 & 12000mAh UPS

UPS01 Uninterruptible Power Supply

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

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Accurate, Reliable and Continuous Weather Monitoring

WTS Series

LoRaWAN® | N | ☁

▶ Overall Features

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

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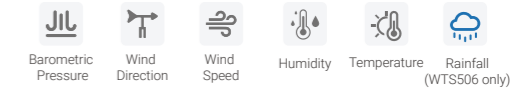
WTS305 IoT Weather Station
Standard Version

WTS506 🔥 IoT Weather Station
Pro Version

Protect and Manage Critical Assets at All Times

AT Series — **LoRaWAN®** | GNSS | Wi-Fi | Bluetooth®

AT101 Outdoor Asset Tracker

- Highly-accurate GNSS positioning
- Cooperate with Wi-Fi positioning
- Support Geofencing
- Provide motion/periodic/timing Modes
- IP67 rated & IK09 rated

- Easy configuration via NFC or Bluetooth
- Embedded 3-Axis Accelerometer & NTC Thermistor
- Support data storage and retransmission
- Battery life over 15 years

iBox Kit Series

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

Overall Features

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

· AM319   · AM307
· AM103   · AM102
· UG56
· Milesight IoT Cloud

*Enjoy free cloud services for a specified period of time

| Indoor Air Quality Solution | **iBox IAQ Kit** |

· WS101   · WS301
· AM103   · WS303
· WS558   · UC300
· UG56
· Milesight IoT Cloud

*Enjoy free cloud services for a specified period of time

| Smart Building Solution | **iBox Smart Building Kit** |

· VS121   · VS340
· DS3604   · UG56
· Milesight IoT Cloud

*Enjoy free cloud services for a specified period of time

| Smart Office Solution | **iBox CoWork Kit** |

· VS121   · WS101
· WS301   · WS156
· UC100   · UG56
· Milesight IoT Cloud

*Enjoy free cloud services for a specified period of time

| Smart Office Solution | **iBox CoWork Kit** |

· WS101   · WS201
· GS301   · VS330
· UC100   · UG56
· Milesight IoT Cloud

*Enjoy free cloud services for a specified period of time

| Smart Restroom Solution | **iBox Smart Restroom Kit** |

· EM500-SMTC
· UC511
· UG56
· Milesight IoT Cloud

*Enjoy free cloud services for a specified period of time

| Smart Agriculture Solution | **iBox Smart Agriculture Kit** |

Smart Restroom Solution

Reshape Restroom, Release the Values of Smartness

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

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

Sensing to Get Advanced Imaging Insights

Milesight X Infinity Series

4G 📶 **Wi-Fi HaLow**

X1 Sensing Camera for Indoor Scenarios

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

X5 Sensing Camera for Outdoor Applications

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

Milesight AIoT Sensing Platform

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

Sensing Object | X1 Sensing Camera | Router | Milesight AIoT Sensing Platform | Third Party Platform | X5 Sensing Camera
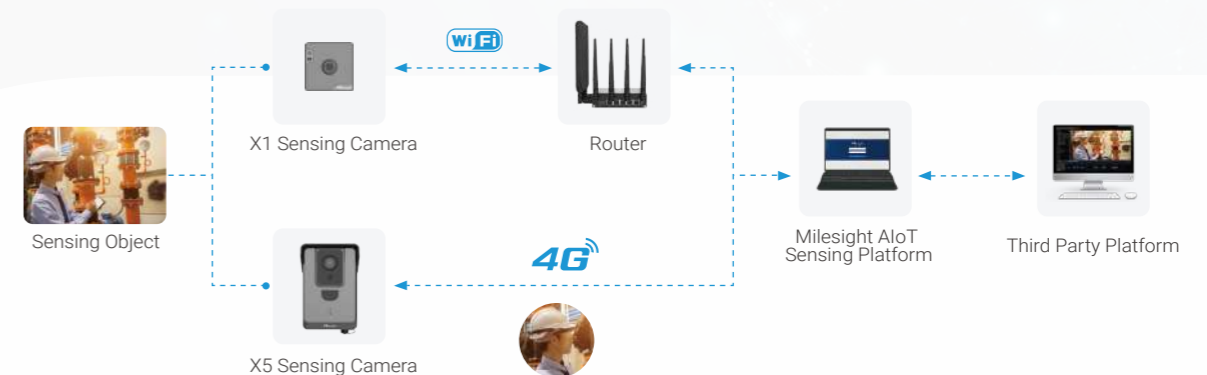
📊 Device Management

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

🕐 Dashboard

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

🖼 Sensing Objects

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

API Open APIs

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

🔲 Trigger

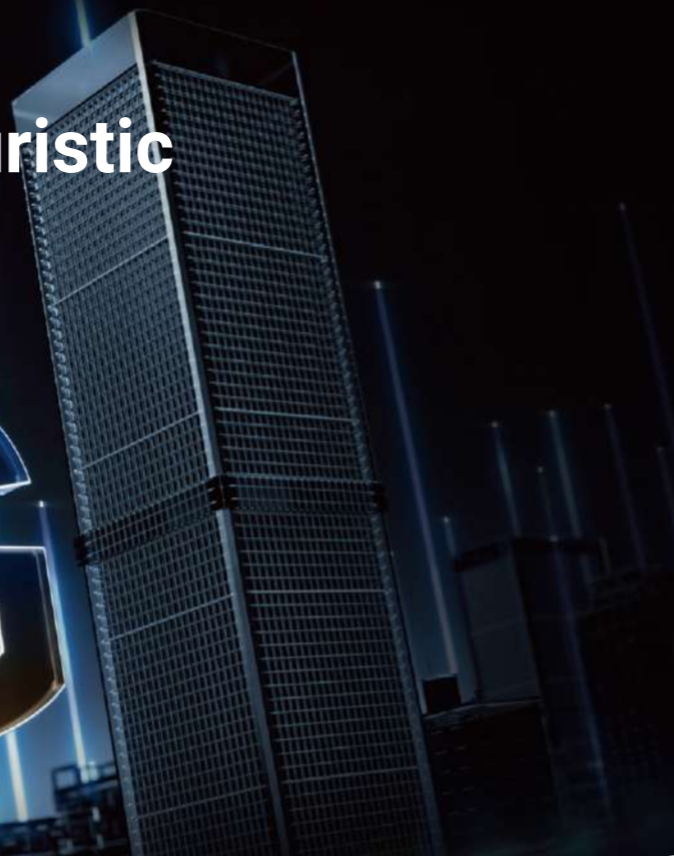- Low Battery and Inactive Status Trigger Alarm Push
- Multiple HTTP and MQTT Receivers Can Be Set

◎ OTA Update

- Batch Hardware Updating
- Configuration Files Batch Importing

Ultra-Fast and Futuristic

5G Series

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

Rugged Communications for Mission -Critical Applications

Industrial Cellular Router & Switch

UR32L Industrial Cellular Router

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

UR32 Industrial Cellular Router

verizon✓

- 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