

- Make Sensing Matter ▪

V1.8



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Product Brochure

LoRaWAN®
Product Catalogue

5G&Router
Catalogue



Milesight IoT Product Brochure



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



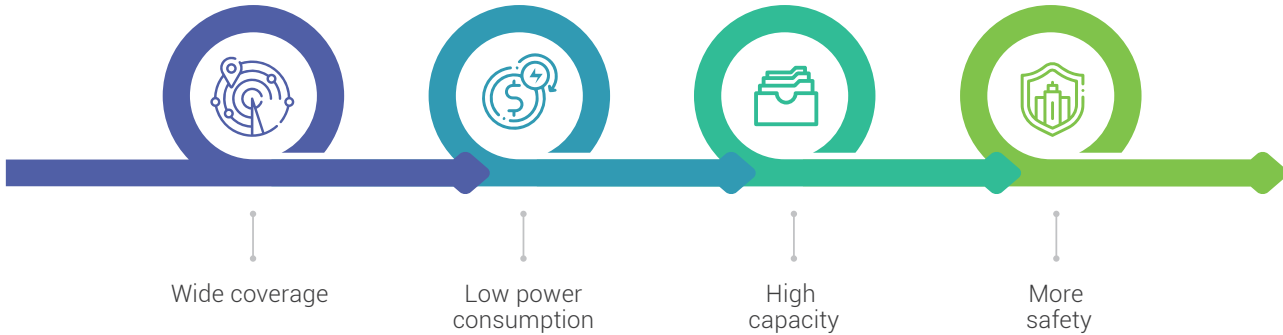
Worldwide Coverage

- 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.

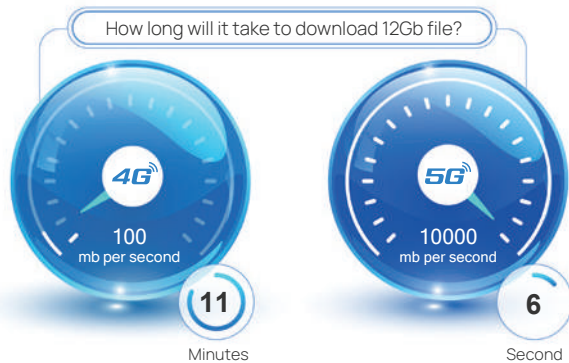
* Independently Developed by Milesight

- 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

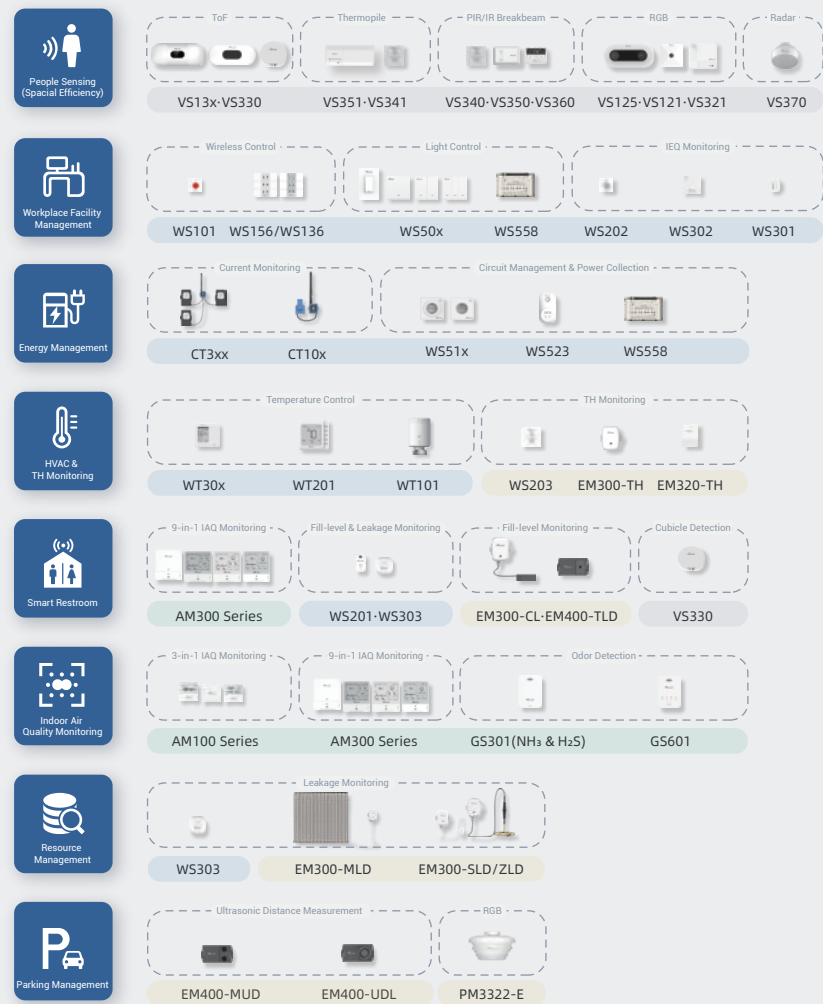
Alongside our expanding partner ecosystem, we develop comprehensive solutions, deliver value offerings, and accelerate results for customers.

Product Application Matrix

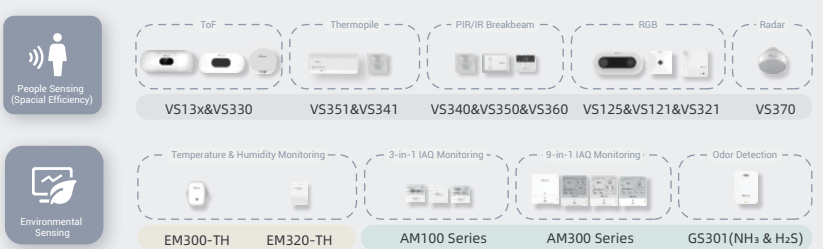
Product Series

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

Smart Building



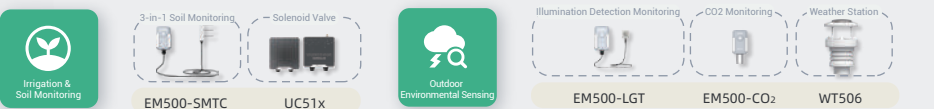
Smart Retail



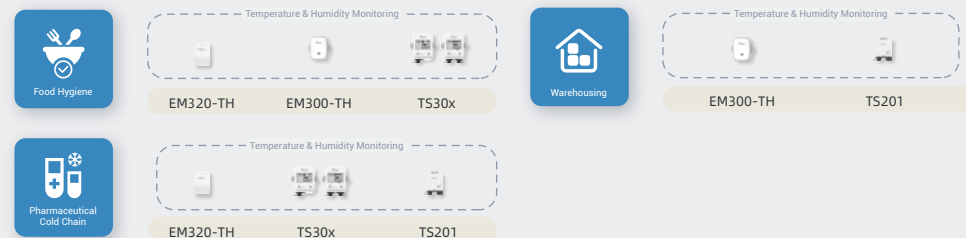
Smart City



Smart Agriculture



Logistics & Cold Chain

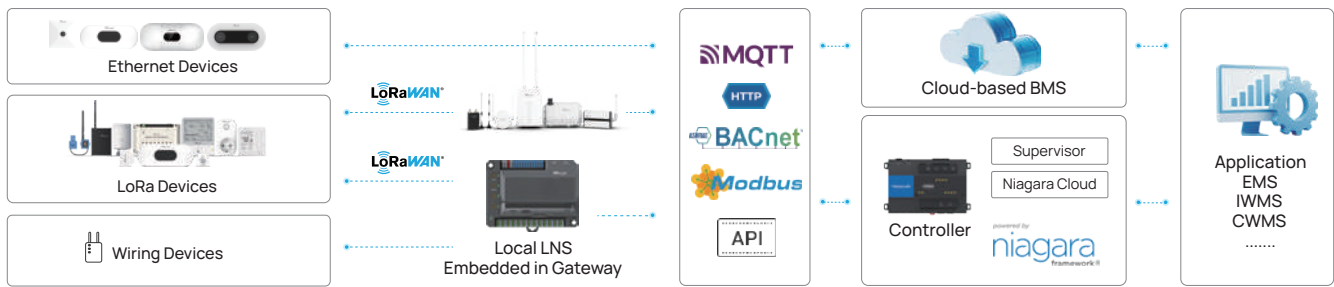


Smart Industry



Empower Smart Building

Integration with Niagara



Facility Protection & Maintenance	Efficient Management	Meter Retrofits	Restroom Management
Circuit Operational Status Monitoring CT Series	HVAC Control WT Series	Remote Meter Reading UC Series	Restroom Cleaning Schedule Management People Sensing WS Series
HVAC System Performance Monitoring WT Series, IAQ Series	Lighting Control WS Series	EM300-DI	Restroom Supplies Management WS Series, EM Series
Facility Protection TS Series, EM Series			

HVAC Management	Lighting Management	Energy Monitoring & Management
Unified Manual Dispatch & Local Automation Adjustment WT Series	Smart Lighting Control WS Series	Data-Driven Control: Real-Time Local Interaction WS Series
Data-Driven Control: Real-Time Local Interaction IAQ&WS Series, VS Series		Data-Driven Control: Energy-Saving Strategy Optimization WS Series
Data-Driven Control: Energy-Saving Strategy Optimization CT Series, TS Series, EM Series	VS Series	CT Series

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, Smart Restroom Management

Energy Management
HVAC Management, Lighting Management, Energy Monitoring & Management

Value-Driven Space Management
Environmental Comfort Improvement, Office/Workspace Space Management, Smart Restroom Comfort, People Caring, Human Well-being Certification Assistance

Environmental Comfort	Workspace Management	People Caring	Smart Restroom Comfort
Temperature and Humidity Control IAQ&EM Series, WT Series, VS Series	Space Optimization VS&DS Series	Safety & Healthy Monitoring VS373 Fall Detection	Restroom Air Quality Management GS301
Noise Monitoring WS302	Footfall Monitoring VS Series	Human Well-being Certification Assistance IAQ Monitoring, Sustainability, Fire Safety	User Satisfaction Management VS350, Display
(E-)Cigarette Detection GS601	Sanitation Management VS Series		

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.

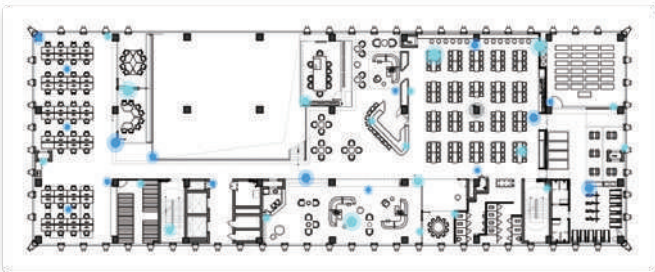


----- Sway Hong, Director of R&D Department



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.

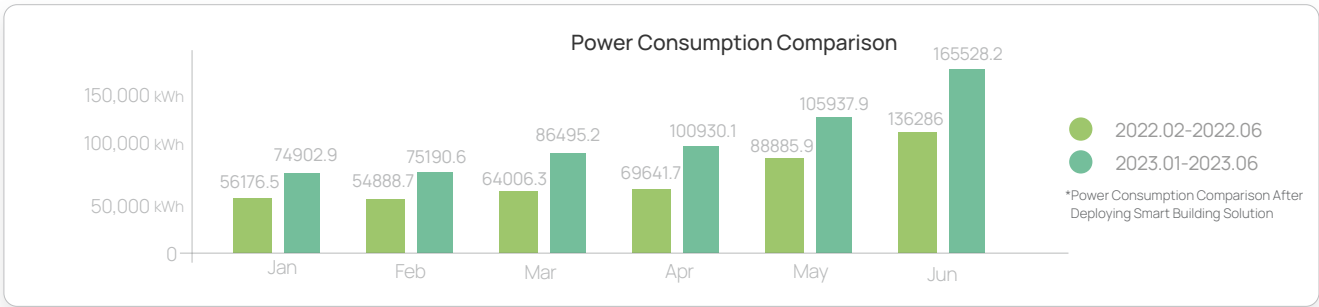


● Cameras ● Sensors

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 Milesiaht 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 Milesiaht's commitment to maintaining a secure and well-governed workplace.

Enable All-around Connectivity

Milesight IoT Gateway

LoRaWAN® ASHRAE BACnet™ Wi-Fi HaLow



Comparison Guide
for IoT Gateways



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



red dot 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
- ▶ 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



See the Unseen to Know Indoor Air Quality

IAQ Sensor

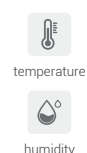


Comparison Guide
for IAQ Sensors



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)

7/8/9-in-1 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 3 years (AM307) / 1 year (AM308)
- Battery life up to 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

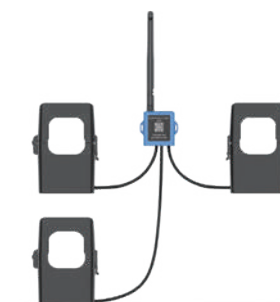
CT10x Smart Current Transformer



- CT101 with 100A current capacity
- CT103 with 250A current capacity
- 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



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

People Sensing

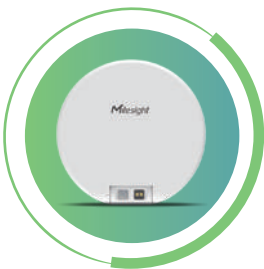


Space Occupancy Detection VS121 AI Workplace Occupancy Sensor

- Regional People Counting: Up to 95%
- Technology: PIR, ToF
- Functionality: Bi-directional/Regional people counting, multi-zone occupancy detection
- Application: Workplace, cubicle

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: 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



Occupancy Detection in Meeting Rooms VS370 Radar Human Presence Sensor

- People presence detection
- Smart connection to lighting system

Wireless Occupancy Sensor VS321 Battery Version Workplace Occupancy Sensor

- Wireless Deployment
- Space Optimization
- Data-Driven Control



Fall Detection VS733 Radar Fall Detection Sensor

- Fall detection & Dwell time
 - Smart interaction with alarming
 - Systems for security
- Safety protection for healthcare centers & Old people's home

People Counting



Comparison Guide for
People Counting Products



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
- Staff detection and adults/children differentiation
- Insightful group counting & Advanced heat map
- Extendable multi-device stitching (4 devices)
- Advanced shopping cart & Tailgating detection
- Application: Retail, building, airport, supermarket

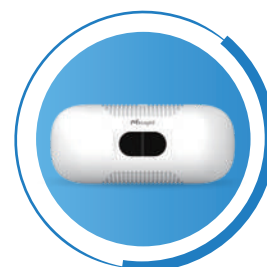


Wireless Indoor Passage People Counting VS350 Passage People Counter

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

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
- 6.5m high ceiling mounting version available
- IP65 rated waterproof protection
- Staff detection and adults/children differentiation
- Insightful group counting & Advanced heat map
- Extendable multi-device stitching (8 devices)
- Advanced shopping cart & Tailgating detection
- Application: Retail, building, airport, supermarket



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



GDPR

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 recognition
- Staff detection and adults/children differentiation
- Insightful group counting & Advanced heat map
- Extendable multi-device stitching (16 devices)
- Advanced shopping cart & Tailgating detection
- Application: Retail, building, airport, supermarket



Smart Heating and Cooling Controls

WT Series

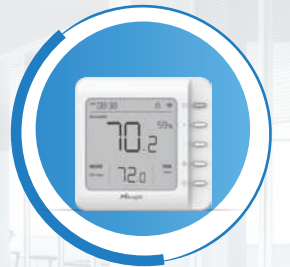


WT101 Smart Radiator Thermostat

- 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 Milsight D2D featuring LoRa®



WT303/WT304 FCU Thermostat

- Suitable for 4-pipe FCU
- On/off Relay/0-10V Valve
- AC85-240V
- Support Milsight 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



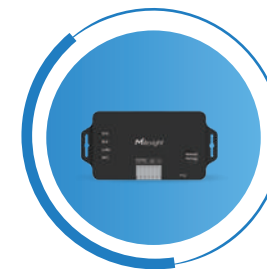
WT30x Smart Fan Coil Thermostat

- 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



UC711 HVAC Controller

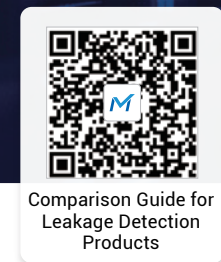
- Work Smoothly Paring with WT401 Wireless Thermostat via BLE or PowerBus
- Supports up to 4 Heat/2 Cool, & Cool, Heat, Auto, & 5 Fan Modes Including Auto/High/Medium/Low/Circulate
- Specialized HVAC System Management Module for More Professional Applications
- Schedules can Work as you Set Even During Disconnection for up to 72h
- Support 24VAC Power Supply



Monitor Conditions and Optimize Controls

EM300 Series - Environment Monitoring Sensor

LoRaWAN®



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



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

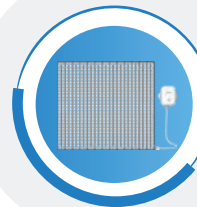


EM300-TH Temperature & Humidity Sensor

- 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

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 20m detection range, 60GHz, 8°
- High dust protection level
- Battery-powered
- Sewer level detection



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-CO₂ Carbon Dioxide Sensor (4 in 1)

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



EM500-LGT Light Sensor

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



EM500-PP Pipe Pressure Sensor

- Shock & vibration & corrosion resistant
- Measuring accuracy around $\pm 0.5\%$ 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 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-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



D2D



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



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®



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)



WS202 PIR & Light Sensor

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



WS301 Magnetic Contact Switch Sensor

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



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



WS516 Smart Wall Socket

- Type G
- Dual-Position
- Support Milesight D2D
- Data-driven control
- Energy-saving strategy
- Fire warning



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®



WS523 Portable Socket

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



SCT01 Sensor Configuration Tool

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

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 Miesight 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

Miesight Accessories



FT101 Miesight 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



- $\pm 0.5^{\circ}\text{C}$ 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
- 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



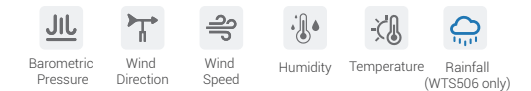
Accurate, Reliable and Continuous Weather Monitoring

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



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

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Smart Office Solution

iBox CoWork Kit

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

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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 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

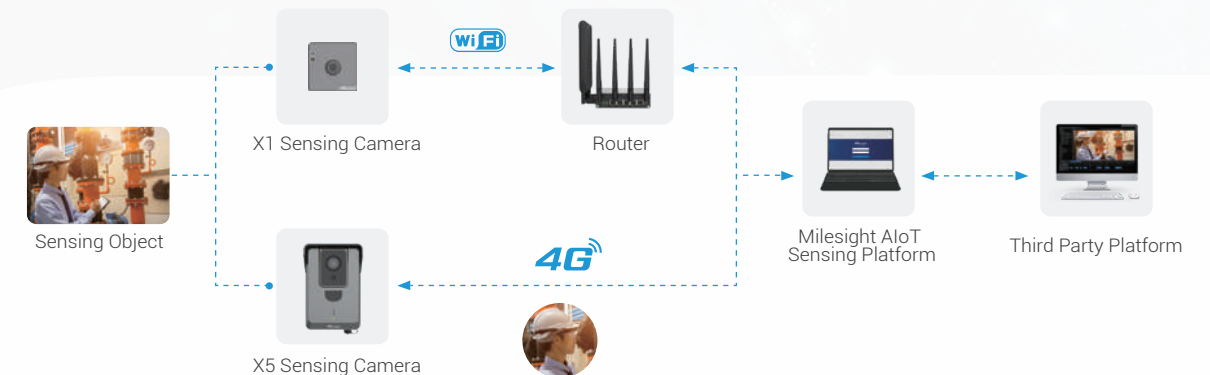
X5 Sensing Camera for Outdoor Applications

- 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



UF51 5G CPE

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



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



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



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



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



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



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®



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



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®



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.



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

- Transform real-time and historical data into drag-and-drop widgets on dashboard
- Control access and monitor projects from anywhere
- Email and mobile push notifications based on triggered events
- Built on AWS to provide confidential and reliable infrastructure for your data
- Licensing with ease: just copy & paste and upgrade is done

DeviceHub



Milesight DeviceHub is a platform which is designed to provide a high-efficiency, low maintenance solution to easily deploy Milesight IoT devices (especially industrial cellular routers) across multiple locations, reducing complexity and increasing productivity.

- Large scale deployment
- Real-time monitoring
- Comprehensive report

Milesight VPN

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

