Milesight

5G Products & Industrial Routers Catalogue

5G, AI & Sensing Technology

Better Inside, More in Sight

V3.2

Milesight

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Milesight IoT Co., Ltd.

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

2011

Establishment
• Milesight headquarters was founded
• Started from video surveillance industry

2012 – 2014

Quality & Innovation
• Kept diversifying the product portfolio & functions
• Evolved into unique Milesight brand recognition

2015 – 2016

Active Branding
• Increased brand awareness and expanded overseas market scope
• Continuous innovation in advanced technology and expertise

2017 – 2018

Fast Growing
• Built Milesight IoT brand for IoT industry
• Introduced LoRaWAN® technology
• Introduced 4G Cellular Router

2019

High-Performing & Value-Added
• Joined LoRa Alliance to dive into IoT ecosystem
• Established Milesight Chengdu R&D center

2020

Grand Merger
• Milesight Technology and Milesight IoT became one strong entity
• Introduced 5G technology and AI deep learning

2021

Brand Upgrade
• Inauguration of the new headquarters & 10th Anniversary

2022 – 2023

IoT Era
• Introduced Milesight new brand identity
• Further explored frontiers of IoT and sensing landing

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
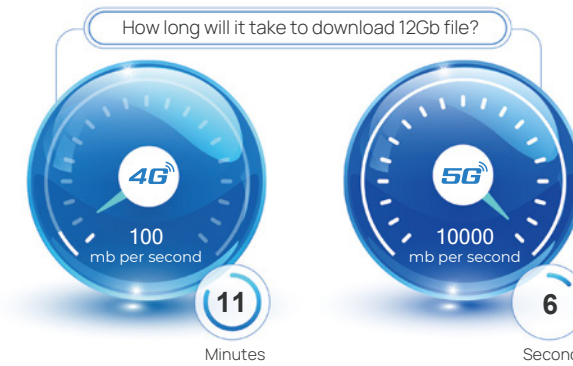- Embrace easy interoperability with other network servers and clouds

Worldwide Coverage
- Provide services over 120+ countries and regions
- Form a healthier and value-added channel management network

WHY MILESIGHT

Why 5G

What Is 5G?

How long will it take to download 12Gb file?

4G 100 mb per second — 11 Minutes

5G 10000 mb per second — 6 Second

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 Milesight 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, Milesight 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

Smart Industry

Smart Building

Smart City

Smart Office

Smart Agriculture

CONTENTS

SENSING INSIGHT
SENSING THE INFINITY TO DRIVE THE WORLD

Physical World → Sense → AIoT Understand → Interact

Sensing by Products

Ingest the original environment from the sensing devices, whether they are network cameras or environmental sensors.

Insight on Environment

Through IoT technologies, convert the original resource into visualized, automated, and value-added data that is critical to the physical world.

Drive the Digital World

Massive critical information about the environment gathered becomes insights. The outcome, such as decision-making and future planning, tells us how to create a more efficient and intelligent world.

Digital Sensing	Connectivity	Interaction	Application
	LoRaWAN® Gateway	IoT Display	Smart Workplace
	4G/5G Industrial Routers		Smart City
Sensing Nodes	5G Super-Speed Suit	IoT Display	Smart Agriculture

Mini Series Industrial Router

UR41 is a compact size 4G router for IoT applications with low-cost and high efficiency.

4G

Overall Features

- Secure 4G Connectivity in a Compact Design
- Power Consumption as Low as 60mA in Idle Mode
- Protect Power Sources by Dropping Power Consumption to a Target of 6.3mA in Standby Mode
- Fast Network Response from Standby Mode Triggered by Timers, DI, Cellular, Ethernet or Serial Port
- Remote and Bulk Management for Easy Maintenance
- Support GPS & Multiple Interfaces for Various Applications

UR41

Model		UR41
Hardware System	Processor	ARM Cortex-A7, 528 MHz
	Memory	128 MB DDR3 RAM and 128MB Flash
Connectivity	Cellular Interface	4G LTE (CAT 4)/WCDMA/GSM (1 x Nano SIM Slot)
	Ethernet Interface	1 × 10/100 Mbps LAN Port
	GNSS	1 × 50 Ω SMA Connector (Center PIN: SMA Female), GPS/GLONASS/Beidou/Galileo/QZSS
	Serial Interface	1 × RS232 or 1 x RS485 (Software Switchable)
	DI/DO	1 x DI + 1 x DO
Others	Network Protocols	IPv4/IPv6, PPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, SSH, MQTT, TR069, etc.
	Power Input	① 5-24 VDC, with Surge-Protection and Reverse Polarity Protection ② 5V/1A by USB Type-C Port
	Ingress Protection	IP30
	Dimension	70 x 55 x 22 mm (2.76 x 2.17 x 0.87 in) (Antenna Excluded)
	Installation	Desktop, Wall Mounting

Lite Series Industrial Router

UR32L is rugged and secured 4G router for IoT applications with low-cost and high efficiency.

4G

Overall Features

- Industrial-Grade Design with Rugged Metal Casting
- Equipped with NXP Industrial Grade Processor
- Support Operating Temperature from -40°C to 70°C
- PoE-PSE for Less Wire Connection Option
- Reliable Connectivity with 4G/Ethernet Failover
- Support Milesight VPN & Devicehub Management for Easy Maintenance

UR32L

Model		UR32L
Hardware System	Processor	ARM Cortex-A7, 528 MHz
	Memory	128 MB DDR3 RAM and 128MB Flash
Connectivity	Cellular Interface	4G LTE (CAT 4)/WCDMA/GSM (1 x Mini SIM Slot)
	Ethernet Interface	1 × WAN + 1 × LAN or 2 × LAN (2 x 10/100 Mbps)
Others	Network Protocols	IPv4/IPv6, PPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, TR069, MQTT, etc.
	Power Input	9-48 VDC, 2-pin 5.08 mm Terminal Block
	Power Output	2 × 802.3 af/at PoE PSE on LAN Ports (Optional)
	Ingress Protection	IP30
	Dimension	108 x 90 x 26 mm (4.25 x 3.54 x 1.02 in)
	Installation	Desktop, Wall or DIN Rail Mounting

Pro Series Industrial Router

UR32/UR35 secures reliable cellular-to-ethernet connectivity for IoT applications, such as kiosk, self-service terminals and process automation equipment.

UR32 UR35

Overall Features

- Support Modbus RTU/TCP & Python Programming
- Industrial-Grade Design with Rugged Metal Casting
- Equipped with NXP Industrial Grade Processor
- Support Operating Temperature from -40°C to 70°C
- PoE-PSE for Less Wire Connection Option
- Reliable Connectivity with 4G/Ethernet/Wi-Fi Failover & Dual SIM Backup
- Support Milesight VPN & Devicehub Management for Easy Maintenance
- Verizon Open Development Certification (UR32)

Model		UR32	UR35
Hardware System	Processor	ARM Cortex-A7, 528 MHz	
	Memory	128 MB DDR3 RAM and 128MB Flash	
	Extendable Storage	1 × Micro SD Slot	
Connectivity	Cellular Interface	4G LTE (CAT 4)/WCDMA/GSM (2 x Mini SIM Slots)	
	Ethernet Interface	2 × 10/100 Mbps (1 x WAN + 1 x LAN or 2 x LAN)	5 x 10/100 Mbps (1 x WAN + 4 x LAN)
	Wi-Fi Interface (Optional)	IEEE 802.11 b/g/n, 2.4GHz	
	Serial Interface	1 x RS232(1 x RS485 Optional)	1 × RS232 + 1 × RS485 (2 × RS485 Optional)
	DI/DO	1 x DI + 1 x DO	
	GPS (Optional)	1 × 50 Ω SMA Connector	
Others	Network Protocols	IPv4/IPv6, PPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIPv1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QOS, SNTP, Telnet, VLAN, SSH, MQTT, TR069, etc.	
	Power Input	9-48 VDC, 2-pin 5.08 mm Terminal Block	
	Power Output	2 × 802.3 af/at PoE PSE on LAN Ports (Optional)	4 × 802.3 af/at PoE PSE on LAN Ports (Optional)
	Ingress Protection	IP30	
	Dimension	108 x 90 x 26 mm (4.25 x 3.54 x 1.02 in)	135 x 103 x 45 mm (5.31 x 4.06 x 1.77 in)
	Installation	Desktop, Wall or DIN Rail Mounting	

Ultra Series Industrial Router 5G

Milesight Ultra-Series Industrial Cellular Router UR75 delivers 5G connectivity for wireless networking solutions.

UR75

Overall Features

- Ultra-Fast 5G Connectivity with Superb Download Speed up to 4.67 Gbps
- Strong Wi-Fi Performance with up to 1.8 Gbps Download Speed
- Equipped with Quad-Core CPU Arm Cortex-A55 for Faster Data Transmission
- Advanced OpenCPU System for More Simplified Yet Efficient Frame Work
- Support Transmission of Data via RS232/RS485/ DI/DO
- Support GPS & Wi-Fi for Various Applications

*For more specification, please refer to Page 44.

Wi-Fi HaLow Gateway

HL31 addresses the limitations of bandwidth and slow transmission rates in current LoRa gateways. It is ideal for small to medium-sized coverage areas. Users can experience expanded capabilities for transmitting large data volumes, including images, while preserving low-power requirements.
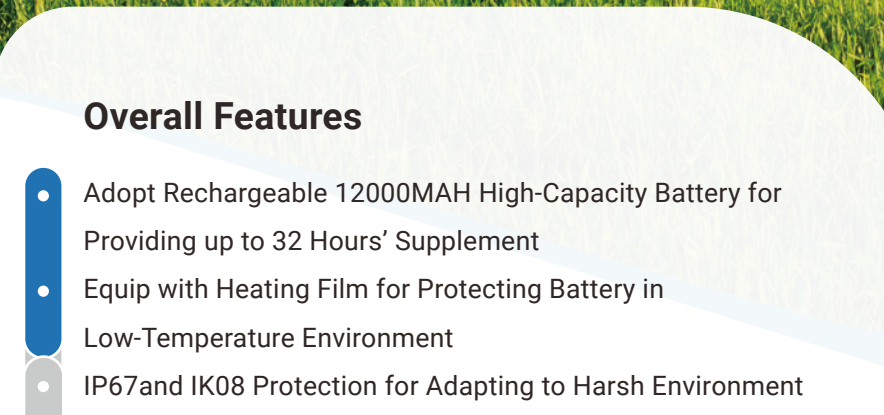
📶 **Wi-Fi HaLow**

HL31

Overall Features

- 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

Model		HL31
Wi-Fi HaLow	HaLow Chipset	MM6108
	Frequency	850~950MHz
	Channel bandwidth	1/2/4/8MHz
	Work Mode	AP
Connectivity	Wi-Fi	IEEE 802.11b/g/n, 2.4 GHz
	Cellular (Opt.)	1 x SIM-3FF
	Ethernet	1 × 10/100Mbps (1 x WAN)
Hardware	Processor	RK3308, 1.3 GHz, 64-bit ARM Cortex-A35 Quad Core
	Power Supply	① 5VDC by Type-C Port ② 802.3af PoE via PoE Splitter ③ 5-12 VDC by Terminal Block
Physica Characteristics	Ingress Protection	IP30
	Installation	Desktop, Wall Mounting, Ceiling Mounting

Uninterruptible Power Supply

The UPS01 is building a successful power supply solution featured with 12000 mAh that is able to serve connectivity needs for the terminal devices up to 32 hours. By offering resilient power supply, the UPS01 is poised to ensure seamless data transmission between the terminal devices and remote platform when power outage happens. Besides, the heating film also allows it to work in low-temperature environment for continuous power supply.

Overall Features

- Adopt Rechargeable 12000MAH High-Capacity Battery for Providing up to 32 Hours' Supplement
- Equip with Heating Film for Protecting Battery in Low-Temperature Environment
- IP67and IK08 Protection for Adapting to Harsh Environment
- Equip with a Traffic Light Indicator and Cooperate with Smart Internal Logic for Status Display
- Compatible with Milesight Devices for Managing Both Power Monitoring and Alarming Remotely
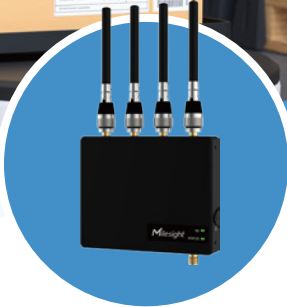
UPS01

Model		Type-C Version	M12 Version
Power	Power Input	9~20V-2A	
	Input Connector	DC Jack Female Connector	
	Power Output	5V-4A	6~8.4V-1.5A
	Output Connector	Type-C	4-Pin M12 A-Coded Female
	Battery Capacity	4 x 3000mAh Lithium-ion Rechargeable Batteries	
	Battery Supply Time *	6 ~ 32h	
Physical Characteristics	Cable Length	DC IN: 30 cm Type-C: 100 cm	DC IN: 30 cm M12: 150 cm
	Ingress Protection	IP67 & IK08	
	Dimension	96×60×45mm (3.78×2.36×1.77 in) (Without Cable)	
	Operating Temperature	Charge Temperature: -20°C to +45°C (-4°F to +113°F) Discharge Temperature: -20°C to +60°C (-4°F to +140°F)	
	Installation	Wall Mounting, DIN Rail Mounting, Pole Mounting, Desktop Mounting	

*The battery supply time is tested under laboratory and non-load conditions and for guideline purposes only. The actual power supply time of the UPS depends on the actual consumption of the connected device and its load.

5G Dongle

UF31 is a 5G-to-wire device which offers a 4G to 5G migration solution for mobility, embedded system, smart buildings and etc.

Overall Features

- Ultra-Fast 4G/5G Connectivity with SA & NSA Modes
- Plug & Play Networking with Pint-Sized Design
- Support Power & Networking Supply via USB Type-C Port
- Higher Performance with 2 GHz Quad-Core Processor
- Industrial-Grade Design with Heavy Cast Aluminum Casing
- Support Devicehub Management for Easy Maintenance

UF31

Model		UF31
Hardware	Processor	Quad-core ARM Cortex-A55, 2 GHz
	Memory	1 GB LPDDR4X RAM and 1 GB NAND Flash
Connectivity	Cellular Interface	5G NR SA&NSA/4G LTE/WCDMA
	Ethernet Interface	1 × 10/100/1000 Mbps LAN Port
	GNSS	1 × 50 Ω SMA Connector
Others	Network Protocols	IPv4/IPv6, TCP, UDP, DHCPv4/DHCPv6, HTTP, HTTPS, DNS, ARP, Telnet, SSH, etc.
	Power Input	① 5-24 VDC, with Surge-Protection and Reverse Polarity Protection ② 5V/3A by USB Type-C Port
	Ingress Protection	IP30
	Operating Temperature	-20°C ~ +50°C(-4°F to +122°F)
	Dimension	90 x 72 x 15 mm (3.54 x 2.83 x 0.59 in)
	Installation	Desktop, Wall Mounting, DIN Rail Mounting

*DC and PoE supply cannot be used at the same time.

5G CPE

UF51 features aesthetic design and outstanding performance with IP67 rating to deliver fast 5G connectivity, higher bandwidth, and low latency to more business.

Overall Features

- IP67 Rated and UV Resistance
- Ultra-Fast 5G Connectivity with SA & NSA Modes
- Dual Band Wi-Fi 6 with up to 3.6 Gbps Download Speed
- Equipped with Qualcomm Quad-Core Processor
- Aesthetic Design with Flexible Installation Ways
- Support Devicehub Management for Easy Maintenance

UF51

Model		UF51
Hardware	Processor	Quad-core ARM Cortex-A55, 2 GHz
	Memory	1 GB LPDDR4X RAM and 1 GB NAND Flash
Connectivity	Cellular Interface	5G NR SA&NSA/4G LTE/WCDMA（1 x Micro-3FF SIM Slot)
	Ethernet Interface	1 × 10/100/1000/ Mbps (LAN2) 1 × 10/100/1000/2500 Mbps (LAN1/WAN)
	Wi-Fi Interface (Optional)	IEEE 802.11b/g/n/ax 4 x 4 MIMO, 2.4 GHz IEEE 802.11a/n/ac/ax 4 x 4 MIMO, 5 GHz
	Serial Interface	1 × RS485 (RS232 Hardware Optional)
	DI/DO	1 × DI+ 1 × DO, Galvanic Isolation
Others	Network Protocols	IPv4/IPv6, TCP, UDP, DHCP, HTTP, HTTPS, ARP, NTP, DNS, ARP, SSH, etc.
	Ingress Protection	IP67
	Dimension	No Waterproof Connector: φ105 x 110 x 187 mm (φ4.13 x 4.33 x 7.36 in) With Waterproof Connector: φ105 x 110 x 218 mm (φ4.13 x 4.33 x 8.58 in)
	Installation	Desktop, Pole Mounting, Wall Mounting, Bottom Screw Mounting

*DC and PoE supply cannot be used at the same time.

5G AIoT 4X/12X Pro Bullet Plus Network Camera

Milesight 5G AIoT 4X/12X Pro Bullet Plus Network Camera provides a fresh experience of UHD image quality, low latency and fast transmission speed to some scenarios where wiring is inconvenient.

Camera

Overall Features

- Built-in LoRaWAN® Gateway for AIoT Insights
- Embedded Network Server for Easy Deployment
- Better AI Video Analytics, Face Detection, People Counting via AI Deep Learning
- 5G Wireless Communication with Higher Bandwidth, Higher Mobility, Higher Scalability, Lower Latency

Model		5G AIoT 12X Pro Bullet Plus Network Camera	5G AIoT 4X Pro Bullet Plus Network Camera
Camera	Megapixel	2MP	4K
	Image Sensor	1/2.8" Progressive Scan CMOS	1/1.8" Progressive Scan CMOS
	Lens	5.3~64mm, 12X Optical Zoom	8~32mm, 4X Optical Zoom
	Field of View	H61°~H5°/D69°~D5°/V36°~V2°	H44°~H13°/D51°~D15°/V25°~V7°
	Max.Image Resolution	1920x1080	3840x2160
LoRaWAN®	Chipset	SX1302, 8 Channels (Half/Full-duplex)	
	Antenna	2 × Internal Antennas + 2 × 50 Ω N-Female External Connectors	
	Frequency	CN470/IN865/EU868/RU864/US915/AU915/KR920/AS923-1&2&3&4	
	Protocol	V1.0 Class A/Class B/Class C and V1.0.2 Class A/Class B/Class C	
Connectivity	Cellular	Support 5G/4G/3G (1 x Nano SIM Slot)	
	Ethernet	1*RJ45 10M/100M Ethernet Port	
	Audio I/O	1/1	
	Alarm I/O	1/1	
Physical Characteristics	Power Supply	PoE (802.3at) / DC 12V±10%	
	Ingress Protection	IP67(Only for Camera Body)	
	Dimension	320 x 134 x 126 mm (12.60 x 5.28 x 4.96 in) 320 x 134 x 292 mm (12.60 x 5.28 x 11.50 in) (With 5G Antennas)	

5G Industrial Router

The Milesight Ultra-Series Industrial Cellular Router UR75 delivers 5G connectivity for wireless networking solutions

Overall Features

- Ultra-Fast 5G Connectivity with Superb Download Speed up to 4.67 Gbps
- Strong Wi-Fi Performance with up to 1.8 Gbps Download Speed
- Equipped with Quad-Core CPU Arm Cortex-A55 for Faster Data Transmission
- Advanced OpenCPU System for More Simplified Yet Efficient Frame Work
- Support Transmission of Data via RS232/RS485/ DI/DO
- Support GPS & Wi-Fi for Various Applications

UR75

Model		UR75
Hardware	Processor	Quad-core ARM Cortex-A55, 2 GHz
	Memory	1 GB LDDR4x RAM and 1 GB NAND Flash
	Extendable Storage	1 × M.2 NVMe SSD Interface
	Button	1 × Reset Button
	GNSS	1 × 50 Ω SMA Connector
Connectivity	Cellular Interface	5G NR SA & NSA/4G LTE/WCDMA
	Ethernet Interface	1 × WAN + 4 × LAN (5 x 10/100/1000 Mbps)
	Wi-Fi Interface (Optional)	IEEE 802.11b/g/n/ax 2 x 2 MIMO, 2.4 GHz IEEE 802.11a/n/ac/ax 2 x 2 MIMO, 5 GHz
	Serial Port	1 × RS232 + 1 × RS485
	DI/DO	1 x DI + 1 x DO
Others	Ingress Protection	IP30
	Dimension	135 x 115 x 36.4 mm (5.31 x 4.53 x 1.43 in)
	Installation	Desktop, Wall or DIN Rail Mounting

X1 Sensing Camera

X1 builds a connection between objects, people, and scenarios through images to realize easy upgrades or enable unlimited sensing insights for more possibilities.

Wi-Fi · Wi-Fi HaLow

SC541

Overall Features

- Inspire Sensing Insights through Images
- 2MP High-Definition Images for Valuable Information
- Easy-to-Get Wireless Deployment
- Long Service Life with Low Power Consumption
- Multi-Object Catching & Multi-Capturing Modes
- Compact Design & Powerful Camera Capacity
- Collaborate with AIoT Sensing Platform
- Well Compatible with the Third-Party Platforms
- Wi-Fi Halow Version Available

Model		SC541	SC541-HL
Wireless Transmission	Wi-Fi	IEEE 802. 11 b/g/n, 2.4GHz (STA & AP)	IEEE 802. 11 b/g/n, 2.4GHz (AP)
	Wi-Fi HaLow	-	850~950 MHz
	Protocol	MQTT	
Measurement	Resolution	1920x1080 Pixels	
	Aperture	F2.4@PN: 1020 / F2.0@PN: 0510	
	Focal Length	4.8mm@PN: 1020 / 1.79mm@PN: 0510	
	Field of View	77°@PN: 1020 / 120°@PN: 0510	
	Capture Mode	Scheduled Capture(Interval & Timed) / Alarm-in Capture/Button Capture	
Physical Characteristics	Ingress Protection	IP30	
	Dimension	62 x 62 x 25 mm	
	Installation	Universal Camera Bracket Mounting	
	Antenna	Built-in Antenna	External Antenna
	Operation Temperature	0°C~50°C	
	Color	Charcoal Grey	Black

*DC and PoE supply cannot be used at the same time.

X5 Sensing Camera

X5 captures photos when there is an trespass based on radar or PIR, and alarming immediately.

4G

SC311

Overall Features

- IP66 Water Proof & Adjustable Rain Cover
- 2MP Resolution with Infrared Supplement Light Without Disturbance
- Wireless Deployment Based on 4G Transmission & WiFi Configuration
- Active Based on Time, DI, PIR, Radar, Temperature or Noise
- Power Supply via Battery, Type-C and Solar Power
- Low Power Consumption with Hibernate Mode
- Collaborate with AIoT Sensing Platform
- Support GPS for Various Applications

Model		SC311
Wireless Transmission	Cellular (4G)	NA: B2/ B4/ B5/ B12/ B13/ B25/ B26 EU: B1/ B3/ B7/ B8/ B20/ B28 AU: B1/ B2/ B3/ B4/ B5/ B7/ B8/ B28/ B66
	SIM Card	1 x Nano- 4FF SIM Slot
	Configuration	Wi-Fi 802. 11b/g/n 2.4GHz
Measurement	Resolution	1920 x 1080 Pixels
	Focal Length	2.8 mm
	Field of View	100°
	Trigger Capture	PIR Awake; Radar Awake; Time Awake; DI Awake; Temp. Awake; Noise Awake.
Others	Power Source	Solar Panel with Chargeable Battery/Type-C
	Operation Temperature	-20°C ~60°C
	Ingress Protection	IP66
	Installation	Wall or Pole Mounting

*DC and PoE supply cannot be used at the same time.

Milesight PoE Switch

Milesight PoE Switch transmits data and power simultaneously, which is suitable for installation environment where power outlet is limited.
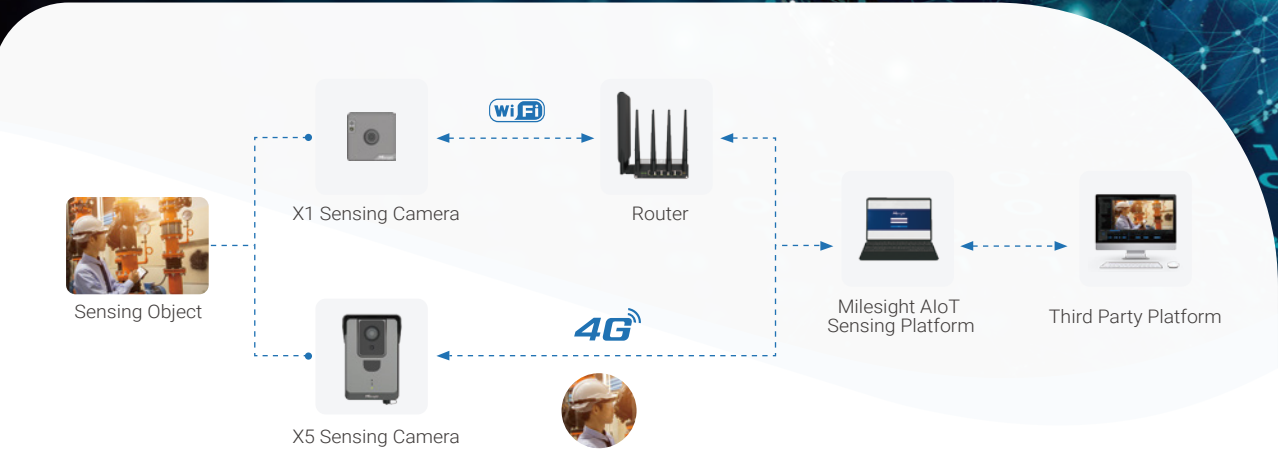
PoE Switch

Overall Features

- Multiple Options for Ports from 4, 8, 16 to Maximum 24 Ports
- Up to 14.8 Gbps Switching Capacity with Full Link-Speed Forwarding
- Maximum 400W Power Budget with 4 Kv Surge Protection
- Allow Different Camera Variations to be Configured

Model	MS-S0204-EL	MS-S0208-EL	MS-S0208-GL	MS-S0216-GL	MS-S0416-GF	MS-S0224-GL	MS-S0424-GF
Ports	8X10/100Mbps PoE Ports (RJ45)	8X10/100Mbps PoE Ports (RJ45)		16X10/100Mbps PoE Ports (RJ45)		24X10/100Mbps PoE Ports (RJ45)	
	2X100Mbps Uplink Ports			2X1000Mbps Uplink Ports			
	-	-	-	-	2X1000Mbps SFP Ports	-	2X1000Mbps SF Ports
Switching Capacity	1.6Gbps	2Gbps	11.8Gbps	14.8Gbps			
	Non-blocking						
Power	Built-in Switching Power Supply, AC 100~240V, 50-60Hz						
Supply	1A	2.2A	2.5A	3A		5A	
PoE Standard	IEEE802.3af/at						

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 — WiFi — Router — Milesight AIoT Sensing Platform — Third Party Platform — X5 Sensing Camera — 4G

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

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

List of LTE Frenquancy Band

Number	Model	Region	Frequency Band
L04AF	UR3x/UR75-4G	North America	LTE FDD: B2/B4/B5/B12/B13/B14/B66/B71 WCDMA: B2/B4/B5
L04AU		Latin America, ANZ	FDD: B1/B2[1]/B3/B4/B5/B7/B8/B28 TDD: B40 WCDMA: B1/B2/B4/B5/B8 GSM/EDGE: B2/B3/B5/B8
L04EU		EMEA, Thailand	FDD: B1/B3/B7/B8/B20/B28A TDD: B38/B40/B41 WCDMA: B1/B8 GSM/EDGE: B3/B8
L04AF	UR41	North America	LTE-FDD:B2/B4/B5/B12/B13/B25/B26 WCDMA: B2/B4/B5
L08AU		Latin America, ANZ	LTE-FDD:B1/B2/B3/B4/B5/B7/B8/B28/B66 WCDMA: B1/B2/B5/B8 GSM:B2/B3/B5/B8
L08EU		EMEA, ANZ	LTE-FDD:B1/B3/B7/B8/B20/B28 WCDMA: B1/B8 TD-SCDMA :B34/B39 GSM:EGSM900/DCS1800

4G Cellular Module

[1] Rx-diversity not supported.

Number	Model	Region	Frequency Band
504AE	UR75-5G/UF51	EMEA, APAC, Brazil	5G NR: N1/3/5/7/8/20/28/38/40/41/77/78 LTE FDD: B1/3/5/7/8/20/28/32 LTE TDD: B38/40/41/42/43 WCDMA: B1/5/8
554AE	UF31	EMEA, APAC	5G NR: N1/3/5/7/8/20/28(a&b)/38/40/41/77/78/79 LTE FDD: B1/3/5/7/8/18/19/20/28(a&b)/32 LTE TDD: B38/40/41/42/43/46 WCDMA: B1/5/8

5G Cellular Module

Milesight IoT Product Naming Covention

Industrial Cellular Router & 5G CPE & IoT Controller

UR32 - L 04 EU - G - P - W - RS 485
①   ② ③ ④   ⑤   ⑥

① **Model Name**
- UR41
- UR32L
- UR32
- UR35
- UR75
- UF51
- UC300

② **Cellular Network Type**
- L: 4G LTE
- 5: 5G

③ **Modem Manufacturer & Model**

④ **Operating Region**
- EU: EMEA/South Korea/Thailand/India
- AU: Latin America/Australia/New Zealand
- AF: North America FirstNet
- GL: Global

⑤ **Function (for routers only)**
- G: GPS
- P: PoE
- W: Wi-Fi

⑥ **RS485 (for UR32 only)**
- Add RS-485 Serial Interface

Industrial PoE Switch

MS — S0 2 04 — E L   MS — S0416 — G F
① ②   ③ ④   ⑤ ⑥

① **Uplink Port and SFP Port**
- 2: 2 × Uplink Ports
- 4: 2 × Uplink Ports + 2 × SFP Ports

② **Number of PoE Ports**

③ **Fast Uplink Port (10/100 Mbps)**

④ **Extend Mode**

⑤ **Gigabit Uplink Port (10/100/1000 Mbps)**

⑥ **Optical Fiber Port (SFP)**

Sensing Camera

X1 Sensing Camera

SC 5 4 1 — HL
①   ②③   ④

① **Sensing Camera**
- SC541
- SC311

② **Major Application Scenarios**
- 5: Smart Factory
- 3: Smart Community

③ **Core Technology**
- 4: Based MCU
- 1: Frame-based AI

④ **Wireless Communication Module**
- NA/EU/EA: 4G Module Suppoted Region
- HL: Wi-Fi HaLow