

Better Inside, More in Sight









At Milesight we are passionate about the connectivity of "things" to the cloud. We leverage the value of the top trending technologies that transform the world we live in and are committed to our partners who share the same passion. We believe that the complexity of data collection, storage and retrieval can be simplified into the Cloud-intelligence. Our development and distribution of these appliances and services demonstrates our commitment to the digital transformation and continues to deliver compelling connectivity for IoT world.

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LoRaWAN® Gateway

Ambience Monitoring Sensor

Environment Monitoring Sensor

Leak Detection Sensor EM300-SLD/ZLD Magnetic Contact Switch EM300-MCS

Outdoor Environment Monitoring Sensor

Pipe Pressure Sensor EM500-PP

CO₂ Sensor (4 in 1) EM500-CO₂

Compact Controller

4G/LoRaWAN®

Outdoor LoRaWAN® Controller

Industrial Cellular Router

UR32 Lite UR32 & UR35

Milesight IoT Cloud

Connectivity Suite

DeviceHub & MilesightVPN

























UG65

UG67

AM100 Series EM300 Series EM500 Series UC50x Series UC51x Series

UC11xx/UC34xx Series

UR32L

UR32

UR35

UR755G





Embedded Network Server

- ➤ Real-time data collection & processing
- Receiving data from multiple Milesight gateways
- > Save investment of external network service



Powerful LoRa Capabilities

- Semtech SX1302 LoRa chip
- ▶ Up to 15 kilometers range
- ➤ High capacity of up to 2000 nodes
- ➤ Support CN470/EU868/US915/AS923 and more



Industrial Design

- ► IP65/IP67 waterproof
- ▶ PoE powered device
- → -40°C to 70°C operating temperature



Optimized Packet Forwarder

- ➤ Forwarding data to multiple network servers simultaneously
- Strengthened security and efficiency of data delivery to TTN, ChirpStack and Link WAN

Specifications

Model		UG65	UG67	
Product Image			- Protocopy	
	Channel	8		
	Frequency	CN470/RU864/IN865/EU868/US915/AU915/KR920/AS923		
LoRaWAN	Sensitivity	-140dBm Sensitivity @292bps		
	Output Power	27 dBm Max		
	Protocol	V1.0/V1.0.2/V1.1.0, Class A and Class C		
	Processor	Quad-core 1.5GHz, 64-bit ARM Cortex-A53		
	Memory	512 MB DDR4		
Hardware	Flash	8 GB eMMC (pSLC mode)		
Haraware	Power Supply	1. 9-24 VDC Jack Connector 2. 1 × 802.3 af PoE input	1. 12 VDC with M12 Connector 2. 1 × 802.3 af PoE input	
	Ingress Protection	IP65	IP67	
	Cellular (Optional)	1 x SIM Slot, Support Global GSM/3G/4G LTE Frequency Bands		
Connectivity	Wi-Fi	IEEE 802.11b/g/n		
	Ethernet	1 x 10/100/1000 Mbps		
	GPS	/	Yes	

Indoor **Ambience** Monitoring Sensor





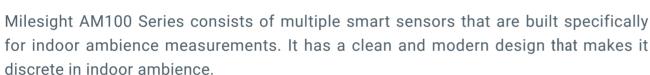
Barometric Pressure













Clean and Modern Design

Bring "less is more" concept to indoor or HVAC environment



Multiple Sensors in One

Temperature, humidity, motion (PIR), CO₂, TVOC, barometric pressure



Configure with One Touch

NFC technology enables easy configuration and on/off operation



Better Readability than LCD Monitor

E-ink technology offers high display clarity and sunlight visibility



Low Power Consumption

AA alkaline batteries can last for 1 year and ensure low maintenance cost



Smart Screen Mode

Screen will stop updating data if no motion is detected continuously for 20 minutes, which will save more power and prolong the use life of batteries.



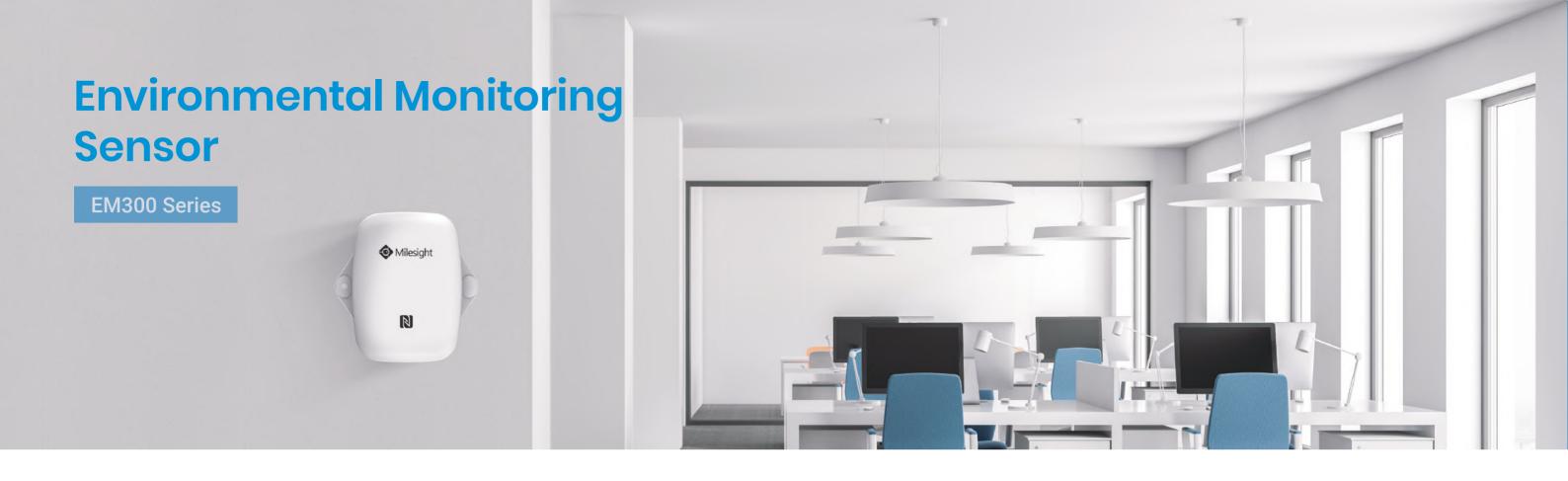
Compliant with ToolBox & Milesight IoT Cloud

Manage and configure your sensor easily





Model		AM107	AM104		
Freq		uency	CN470/RU864/IN865/EU868/US915/AU915/KR920/AS923		
-	Tx P	ower	17dBm (470) / 16dBm (868) / 20dBm (915)		
	Sens	sitivity	-147dBm @300bps		
Hardware	Mod	e	OTAA/ABP		
	Pow	er Supply	2 × AA alkaline batteries	:/Powered by Type C port	
	Batt	ery Lifetime	1 year (SF7), 0.9 year (SF10)	1.5 year (SF7), 1.2 year (SF10)	
	Temperature	Range	-20°C to + 70°C		
	Temperature	Accuracy	±0.3°C (0 ~ 70°C), ±0.6°C (-20 ~ 0°C)		
	Humidity	Range	0% to 100% RH		
	nullialty	Accuracy	±3% RH (10 ~ 90%), ±5% RH (0 ~ 10%, 90 ~ 100%)		
	PIR	Detection Area	94° Horizontal, 82° Vertical		
	1 IIX	Detection Distance	5 m		
	Light -	Range	60000 lux (Visible + IR, IR)		
Sensors	Ligit	Accuracy	±30%		
	CO2	Range	400 ~ 5000 ppm		
_	CO2	Accuracy	±30 ppm or ±3% of reading		
		Range	0 ~ 60000 ppb (total VOC)		
	TVOC	Accuracy	±15% of reading	N/A	
		Long-term Stability	1.3% accuracy drift per year		
	Barometric	Range	300 ~ 1100 hPa (-40 ~ 85°C)		
	Pressure	Accuracy	±1 hPa		



Featuring a simple yet modern design, compact size and waterproof capability, EM300 series are ideal to fit into the indoor or outdoor environment.



Configure with One Touch

NFC technology enables easy configuration and on/off operation



Low Power Consumption

Dual batteries (one battery by default) can last for up to 10 years



Compliant with ToolBox & Milesight IoT Cloud

Manage and configure your sensor easily



Compact & Waterproof

Small size with an IP67 rating enclosure



100% Wire-Free

Up to 15 km wireless communication range

EM300-TH Temperature & Humidity Sensor is a sensor suitable for indoor and outdoor temperature and humidity monitoring. It can be widely used in office areas, greenhouses, houses and other environments.

	Specifications		
Temperature	±0.3°C (0 ~ 70°C), ±0.6°C (-30 ~ 0°C)		
Humidity	±3% RH (10 ~ 90%), ±5% RH (0 ~ 10%, 90 ~ 100%)		
Frequency CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923			
Power Supply	ER18505 Li-SOCI2 Battery (4000 mAh/8000 mAh)		
Operating Temperature	-30 ~ 70°C		
Ingress Protection	IP67		
Dimensions	88 x 87 x 27 mm (3.46 × 3.42 × 1.06 in)		







Office Greenhouse Residence



EM300-SLD/ZLD offers reliable performance to detect presence of water or other liquids by remotely alerting you the potential water leak before the issue becomes too serious, thus helping to prevent water damage.

Model	EM300-SLD	EM300-ZLD	
Sensor Type	Probe	Rope	
Cable Length	1.5 m	3 m	
Temperature	±0.3°C (0 ~ 70°C), ±0.6°C (-30 ~ 0°C)		
Humidity	±3% RH (10 ~ 90%), ±5% RH (0 ~ 10%, 90 ~ 100%)		
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923		
Power Supply	ER18505 Li-SOCI2 Battery (4000 mAh/8000 mAh)		
Ingress Protection	IP67		
Operating Temperature	-30 ~ 70°C		
Dimensions	88 x 87 x 27 mm (3.46 × 3.42 × 1.06 in)		







Hospital

Warehouse

Server Room

EM300-MCS can be mounted to any door or window to detect an opening or closing event. It adds physical security monitoring to your location by alarming for intrusion or unauthorized entry.

Specifications		
Sensing Distance	20 ~ 30 mm	
Cable	ULI 1007 22AWG, 260mm	
Temperature	±0.3°C (0 ~ 70°C), ±0.6°C (-20 ~ 0°C)	
Humidity	±3% RH (10 ~ 90%), ±5% RH (0 ~ 10%, 90 ~ 100%)	
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923	
Power Supply	ER18505 Li-SOCI2 Battery (4000 mAh/8000 mAh)	
Ingress Protection	IP67	
Operating Temperature	-30 ~ 70°C	
Dimensions	88 x 87 x 27 mm (3.46 × 3.42 × 1.06 in)	







Fire Door

Library

Residence



The EM500 Series are LoRaWAN® sensors designed for different professional applications. These sensors adopt a high ingress protection rating enclosure for use in the most challenging outdoor environmental conditions, and are powered by built-in battery for years-long use life.



High IP Rating Enclosure

IP rated as "dust tight" and protected against heavy fog or powerful jets of water



Rich Installations Available

Pole mounting, wall mounting, DIN rail mounting



Configure with One Touch

NFC technology enables easy configuration and on/off operation



Multiple Applications in Vertical Markets

Soil monitoring, water management, temperature & humidity measurement, etc



Long Battery Use Life

19000 mAh replaceable battery ensures low maintenance cost



Compliant with ToolBox Milesight IoT Cloud

Manage and configure your sensor easily



Soil Moisture, Temperature and Electrical Conductivity Sensor EM500-SMTC/SMT





Light Sensor EM500-LGT





Pipe Pressure Sensor EM500-PP





Submersible Water Level Sensor EM500-SWL





Industrial Temperature Sensor EM500-PT100





Ultrasonic Distance/Level Sensor EM500-UDL









EM500-SMTC/SMT provides an external probe for receiving accurate and instantaneous information on soil moisture content, temperature, and salinity. It is an important tool for soil condition monitoring.

Model	EM500-SMTC	EM500-SMT	
	0 ~100% RH	0 ~ 100% RH	
Moisture	2% RH (0 ~ 50%)	±2% RH	
	3% RH (50 ~ 100%)	0.25% RH	
	-40 ~ 80°C		
Temperature	±0.5°C	/	
	0.1°C		
	0 ~ 20000 μS/cm		
Flootrical Conductivity	±3% (0 ~ 10000 μS/cm), ±5% (10000 ~ 20000 μS/cm)	/	
Electrical Conductivity	10 μS/cm (0 ~ 10000 μS/cm), 50 μS/cm (10000 ~ 20000 μS/cm)		
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923		
Power Supply	Built-in 19000 mAh Li-SOCI2 battery, up to 10 years service life		
Ingress Protection	IP66 (Transceiver, IP67 as required)		
Operating Temperature -30 ~ 70°C (Transceiver), -40 ~ 85°C (Sensor) -30 ~ 70°C (Transceiver)		-30 ~ 70°C (Transceiver), -40 ~ 60°C (Sensor)	







Grassland Farmland Greenhouse

EM500-LGT can accurately monitor the changes in the surrounding light intensity. It is suitable for light measurement and research in agriculture, forestry, greenhouse, horticulture, breeding, industrial workshops, warehouses, urban lighting, and buildings.

Specifications		
Range	0 ~ 100000 lux	
Accuracy	±3% (Acquired Value)	
Resolution	1 lux	
Cable length	3 m	
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923	
Power Supply	Built-in 19000 mAh Li-SOCl2 battery, up to 10 years service life	
Ingress Protection IP66 (Transceiver, IP67 as required), IP65 (Sensor)		
Operating Temperature $-30 \sim 70^{\circ}\text{C}$ (Transceiver), $-30 \sim 60^{\circ}\text{C}$ (Sensor)		







Agriculture Forestry

Greenhouse Cultivation



EM500-PP is designed for the pressure monitoring of tank level or leakage in pipes.

Specifications		
Range 0 - 1600 kPa (16 Bar)		
Accuracy	±0.5% FS	
Resolution	1 kPa (0.01 Bar)	
Pressure Type	Gauge Pressure	
Overload	150% FS	
Long-term Stability	±0.3% FS/year	
Process Connection	G 1/4" Female	
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923	
Power Supply	Built-in 19000 mAh Li-SOCl2 battery, up to 10 years service life	
Ingress Protection IP66 (Transceiver, IP67 as required), IP65 (Sensor)		
Operating Temperature	-30 ~ 70°C (Transceiver), -30 ~ 80°C (Sensor)	







Constant Water Supply

Hydraulic Equipment

Barometric Pressure Detection

EM500-SWL is designed to measure the tank level or open water applications while fully submerged in liquid. It is robust and sealed to prevent corrosion and failure.

Specifications		
Range $0 \sim 3 m/5 m/10 m \ (H_2 O),$ Customizable up to 200 m and for other liquids		
Accuracy ±0.5% FS		
Resolution	0.01 m	
Pressure Type	Gauge Pressure	
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923	
Power Supply	Built-in 19000 mAh Li-SOCI2 battery, up to 10 years service life	
Ingress Protection	IP66 (Transceiver, IP67 as required), IP68 (Sensor)	
Operating Temperature	-30 ~ 70°C (Transceiver), -30 ~ 80°C (Sensor)	







Reservoir Tank Lake



EM500-PT100 equips a highly accurate temperature sensor PT100, the platinum resistance temperature detector offers the most stable and precise temperature measurement from -200 to 800°C.

Specifications		
T050: -200 °C to +50 °C T200: -50 °C to +200 °C Range T500: -50 °C to +500 °C T800: -50 °C to +800 °C (Customizable from -200 °C to +800 °C)		
Accuracy	±0.5°C	
Resolution	0.1°C	
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923	
Power Supply	Built-in 19000 mAh Li-SOCI2 battery, up to 10 years service life	
Ingress Protection	IP66 (IP67 as required)	
Operating Temperature	-30 ~ 70°C (Transceiver)	



Industrial Process





Cold Chain Laboratory

EM500-CO₂ is designed for the application where knowing CO₂ level is important like greenhouse, building ventilation, fruit and vegetable storage. It also supports temperature, humidity and barometric pressure measurement.

Specifications			
Sensor Specs	Range Accuracy Resolution		
CO ₂	400 ~ 5000 ppm	±30 ppm or ±3% of reading	1 ppm
Barometric Pressure	300 ~ 1100 hPa (-40 ~ 85°C)	±1 hPa	0.1 hPa
Temperature	-30°C ~ 70°C	±0.6°C (-40 ~ 0°C), ±0.3°C (0 ~ 70°C)	0.1°C
Humidity	0 ~ 100% RH	±3% RH (10 ~ 90%), ±5% RH (0 ~ 10%, 90 ~ 100%)	0.5% RH
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923		
Power Supply	Built-in 19000 mAh Li-SOCl2 battery, up to 10 years service life		
Ingress Protection	IP66		
Operating Temperature	-30 ~ 70°C		







Smart City Livestock Farming Forest Fire Monitoring



EM500-UDL provides highly accurate distance measurement for a variety of applications in harsh environments like flood monitoring, waster water management, fill level monitoring in grains or fertilizer. The measurement is based on ultrasonic waves transmitted and reflected back from nearby objects.

Specifications		
Range W050: 0.3 ~ 5 m W100: 0.5 ~ 10 m		
Accuracy ±1% FS		
Resolution	1 mm	
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923	
Power Supply	Built-in 19000 mAh Li-SOCl2 battery, up to 10 years service life	
Ingress Protection	IP66	
Operating Temperature	-30 ~ 65°C	







Water Treatment

Snow Depth

Grain Silo

Compact Controller

The Compact Controller is designed for monitoring and controlling field devices, and collecting data onto cloud.





Specifications

Model	Analog Input	Digital Input	Relay Output	RS232	RS485	Network
UC1114	_	2	2	_	_	
UC1122	2	1	1	_	_	LoRaWAN®
UC1152	_	1	1	1	1	
UC3414	_	2	2	_	_	
UC3422	2	1	1	_	_	2G/3G/4G
UC3452	_	1	1	1	1	



The UC50x Series LoRaWAN® Controller is a fully integrated and battery-powered LoRaWAN® node with solar panel and multiple communication interfaces for connecting to a wide range of external sensors. With quick installation and easy maintenance, the UC500 Series LoRaWAN® Controller is ideal to work in harsh environments for remote monitoring and collecting data from sensors.

Model	UC501	UC502		
Power Supply	Rechargeable 4900 mAh battery with solar panel	Non-rechargeable Built-in 19000 mAh Li-SOCI2 battery		
Interface 1	2 × GPIO 1 × RS485/RS232 switchable 1 × 3.3 V output 1 × 5/9/12 V output switchable			
Interface 2	2 × analog input 1 × 3.3 V output 1 × 5/9/12 V output switchable			
Dimension	120.1 × 120.1 × 55.4 mm (4.73 × 4.73 × 2.18 in)			
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923			
Ingress Protection	IP67			
Operating Temperature	-20 ~ 60°C			

The UC51x Series LoRaWAN® Solenoid Valve Controller provides seamless ultra long range access capability for common irrigation valves. With Milesight IoT Cloud, the valve can be remotely controlled from anywhere at anytime. Moreover, the embedded pulse counter feature enables the device to monitor flow easily, as well as to make irrigation precisely.







Solenoid Valve Control

- ➤ Time-Based Open/Close
- ▶ Volume-Based Open/Close

Flow Monitoring

- Connecting up to 2 Meters
- Configurable Volume per Pulse

Long Term Reliability

- ▶ IP67 Waterproof
- > 3-Year Battery Life

Model	UC511	UC512		
Power Supply	Rechargeable 4900 mAh battery with solar panel 1 month battery life without charging (Class C)	Non-rechargeable Replaceable 19000 mAh Li-SOCl2 battery Up to 3-year battery life (Class A)		
Solenoid Interface	2 × 2-Wire 12 VDC Latching Solenoid			
Pulse Interface	2 × Pulse Input			
Dimension	120.1 × 120.1 × 55.4 mm (4.73 × 4.73 × 2.18 in)			
Frequency	CN470/RU864/IN865/EU868/AU915/US915/KR920/AS923			
Ingress Protection	IP67			
Operating Temperature -20 ~ 60°C				

UR32 Lite Industrial Cellular Router

UR32 Lite (UR32L) is a featured industrial router that secures reliable cellular-to-ethernet connectivity for IoT applications, such as kiosk, self-service terminals and process automation equipment. Powered by DeviceHub, a remote management platform, UR32 Lite simplifies your process of setup, mass configuration, maintenance and support.





Reliable Connectivity

Major carriers and LTE support make it easy to get connected globally



Remote Management

Gain easy setup, mass configuration, maintenance and support on remote locations



Mighty Mite

Combine compact size with powerful ability to provide high performance and reliability

Industrial Cellular Router

Rugged & Programmable 4G Router







High Performance

- NXP Industrial Grade Processor
- ► -40°C to 70°C Operating Temperature
- Support Wi-Fi, GPS, Serial, I/Os and Voice



Low Maintenance & Easy Operation

- User-friendly GUI
- MilesightVPN for Remote Access
- DeviceHub Central Management



Intelligent & Programmable

- Python Programming
- Support Modbus RTU/TCP



Lower Investment

- Affordable Price
- ▶ PoE-PSE for Less Wire Connection
- Reduce Time Cost by Remote Management

UR75 High-Performance 5G Industrial Router

Featuring the latest and fastest cellular technology - 5G, UR75 is not only an intelligent industrial IoT router, but also an unrivaled wireless networking solution.





Outstanding Performance

- ➣ 5G NSA & NA Modes
- Qualcomm Quad-Core Processor
- CAT4/6/12/20 Cellular Modem (Optional)



Rich Connectivities

- > 2 × 2 MIMO 802.11ac Wi-Fi
- → 1 × RS232 + 1 × RS485
- ➤ 1 × Digital Input & Output



Edge Intelligence

- Azure IoT Edge
- AWS Greengrass
- > Python Programming

Specifications

			UR32L	UR32	UR35	UR75	
Interfaces	SIM Slots		1		2		
	Ethernet Ports		2 x 10/10	00 Mbps	5 x 10/100 Mbps	5 × 10/100/1000 Mbps	
	Serial Ports		N/A	1 x RS232 or 1 x RS485	1 x RS232 + 1 x RS485	1 × RS232 + 1 × RS485	
	DI/DO	N/A			1 × DI + 1 × DO		
	Voice	N		/A	1 × FXS (RJ11)	N/A	
	Antenna Connectors	1 ×	Cellular Connector	2 x Cellular Connectors 1 x Wi-Fi /GPS Connector	2 x Cellular Connectors 1 x Wi-Fi Connector 1 x GPS Connector	3 x Cellular Connectors 1 x Cellular/GPS Connector 2 x Wi-Fi Connectors	
	Cellular			4G CAT4	5G, 4G CAT4/6/9/12/20 (Optional)		
	Wi-Fi (Optional)	N/A		IEEE 802	IEEE 802.11a/b/g/n/ac		
Network	Serial Port		N/A	N/A Transparent (TCP Client/Server, UI Modbus Gateway (Modbus RTU to Modbus TCP)			
	Network Protocols	PPP, PPPoE, SNMP v1/v2c/v3, TCP, UDP, DHCP, RIP v1/v2, OSPF, DDNS, VRRP, HTTP, HTTPS, DNS, ARP, QoS, SNTP, Telnet, VLAN, SS					
	AAA	RADIUS, TACACS+, LDAP, Local Authentication					
	Firewall	URL Filtering/ACL/DMZ/Port Mapping/MAC Binding/			ng/MAC Binding/SPI/DoS Protec	/SPI/DoS Protection	
	Reliability	VRRP, WAN Fail-over, Dual SIM Backup					
	VPN	OpenVPN, IPsec			PTP, L2TP, DMVPN, GRE		
Maintenance	Management		Web, CLI, SMS, Watchdog, On-deman				
Maintenance	Multilevel Authority	Multiple Levels of User Authority					
	CPU			528 MHz, 32-bit ARM Cortex-A7	tex-A7 716 MHz, Quad-Core ARM 0		
	Flash	128 MB		128 MB		8 GB	
Capabilities	Memory	128 MB DDR3			512 MB DDR3		
oupubilitieo	Built-in	Watcho			dog		
	GPS (Optional)	GPS+G			LONASS		
	Extended Memory	N/A 1 × micro SD card slo			slot, up to 128 GB 1 × M.2 NVMe SSD Slot		
	Power Input	9 -		9 ~ 4	48 VDC		
	Power Output (Optional)		2 × 802.3af	02.3af/at PoE PSE 4 × 802.3a		f/at PoE PSE	
Hardware	Ingress Protection			IP30			
Haluwale	Housing & Weight		246g (0.54 lb)	Metal, 271 g (0.60 lb)	Metal, 481 g (1.06 lb)	Metal, 525 g (1.16 lb)	
	Dimensions	108 x 90 x		x 26 mm	135 x 100 x 45 mm	135 × 118 × 45 mm	
	Mounting		Desktop, Wall or DIN Rail Mounting				
	Operating Temperature			10°C to +70°C (-40°F to +158°F) Reduced cellular performance above 60°C			
	Storage Temperature	-40°C to +85°C (-40°F to +185°F)			-40°F to +185°F)		
	Relative Humidity			0% to 95% (non-condensing) at 25°C/77°F			
Others -	Certifications	RoHS, CE, FCC		RoHS, CE, FCC, PTCRB, AT&T, RCM, SPDDI, NBTC	RoHS, CE, FCC		
		E LTE: B1/B3/B5/B7/B8/B20/B38/B40/B41		3G: B1/B5/B8	GSM: B3/B8		
			AF LTE: B2/B4/B5/B12/B13/B14/B66/B71		3G: B2/B4/B5	N/A	
	Frequency Band	5G NR: N1/N2/N3/N5/N7/N8/N12/N20/N28/N41/ B19		3G: B1/B2/B5/B8 GSM: B2/B3/B5/B8 LTE FDD: B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B14/B17/B18/ B19/B20/B21(TBD)/B25/B26/B28/B29/B30/B32/B66/B71 LTE TDD: B34/B38/39/B40/B41/B42/B48			

Milesight IoT Cloud

The Milesight IoT Cloud provides unparalleled levels of vertical integration with Milesight LoRaWAN® gateways, sensors and controllers. It visualizes field data and enables user to monitor and control remote assets on an intuitive dashboard.





Visualization

Transform real-time and historical data into drag-and-drop widgets on dashboard



Alerts

Enable email and mobile push notifications based on triggered events



Monitoring & Control

Control access and monitor your projects from anywhere



Security & Reliability

Built on AWS to provide the most confidential and reliable infrastructure for your data

Connectivity Suite

Applicable to Industrial Cellular Router and LoRaWAN® Gateway



Milesight DeviceHub is a web-based platform that lets you manage all your Milesight routers and gateways from a single location at anytime.

The Milesight DeviceHub is able to monitor all critical parameters of remote routers and gateways, perform configuration, upgrade firmware, analyze system log, create graphic reports and more. It helps to improve productivity, reduce costs, and enhance the intelligence of your network and business operations.

MilesightVPN is the core component of Milesight VPN solution. Typically it's hosted on your own server.

Software Requirements

- ✓ OS: Ubuntu 16.04
- ✓ Supports installation package
- ✓ Browser: Chrome, Firefox

Hardware Requirements

Your host hardware must meet the following minimum requirements:

For 500 devices

For 1000 devices

✓ RAM: 16 GB

В

✓ RAM: 32 GB

Disk: 512 GB

✓ Disk: 1 TB



Milesight IoT Product Naming Convention

Industrial Cellular Router

UR32 - L 00 E - G - P - W - RS485 $\overline{2}$ $\overline{3}$ $\overline{4}$ (5)

- Model Name
- UR32L
- UR32
- UR35
- UR75

- Cellular Network Type
- L: 4G LTE
- 5: 5G
- 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
- G: GPS
- P: PoE
- W: Wi-Fi
- 6 RS485 (for UR32 only)
- Add RS-485 Serial Interface

LoRaWAN® Gateway

UG65 - L 00 E - 915M - EA

- (2) (3) (4)

- UG65
- UG67
- 1) Model Name 2) Cellular Network Type
 - L: 4G LTE
 - Modem Manufacturer & Model
 - 4 Operating Region
 - EU: EMEA/South Korea/Thailand/India
 - AU: Latin America/Australia/New Zealand
 - AF: North America FirstNet

- (5) LoRaWAN® Module
- 470M: CN470
- 868M: RU864/IN865/EU868
- 915M: US915/AU915/KR920/AS923
- 6 External Antenna

LoRaWAN® Sensor

EM500 - UDL - 915M









- AM100
- EM300
- EM500
- 2 Sensor Type
- UDL: Ultrasonic Distance/Level Sensor
- SMTC/SMT: Soil Sensor
- SWL: Submersible Water Level Sensor
- LGT: Light Sensor
- PT100: PT100 Temperature Sensor
- CO₂: CO₂ Sensor
- PP: Pipe Pressure Sensor
- TH: Temperature & Humidity Sensor
- MCS: Magnetic Contact Switch Sensor
- SLD: Spot Leak Detection Sensor
- ZLD: Zone Leak Detection Sensor

• 470M: CN470

(3) LoRaWAN® Module

- 868M: RU864/IN865/EU868
- 915M: US915/AU915/KR920/AS923

LoRaWAN® Controller

UC511- DI - 915M

(1)

1 Model Name

UC501

UC502

UC511

• UC512 • UC1114

UC1122

• UC1152

- (2)
- (3)
- 2 Interface (For UC51x Only)
- Digital Input (Pulse Counter)
- 3 LoRaWAN® Module
- 470M: CN470
- 868M: RU864/IN865/EU868
- 915M: US915/AU915/KR920/AS923