RG2i Groupe 2AR
Capter - Transmettre - Analyser
Interfaces pour l'informatique industrielle

URSALINK

WE CONNECT THINGS TO CLOUD

Customer-Centric | R & D Strength | Innovation-Driven | Global Readiness

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ATTENTION - NOUVELLE ADRESSE

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Who We Are

At Ursalink 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.

Why You Should Choose Ursalink

Global Readiness

Customer-oriented, Ursalink delivers services with a worldwide network of distributors and resellers, from well-rounded before/after sale services to the real time technical support, from east to west. Along the way we build up long-lasting and trustworthy relationship with our customers.

Execute with Excellence

We spare no effort in quality control and product innovation to deliver both reliability and usability. The strong experience of Ursalink’ s research and development team allows the integration of proven technologies and open customizable functionality to the user for enhanced solutions to an ever-changing world of IoT & M2M challenges, without sacrificing stability and security .

Gear up Your Business with Ursalink

Our products range from M2M/IoT communication device to Cloud service. The defined distribution channel will be an assurance that everyone stands in line and drives a desired profit increase to our partners. With the future in mind, we also design and deliver customer-tailored products and services with an emphasis on the most minor details that enhance our products longevity. Wherever device talks, Ursalink connects.

URSALINK

We Connect Things to Cloud

UR75-EDGE

UR75 EDGE

Cloud-Ready

Edge Computing Gateway

The easy integration with edge computing service such as AWS Greensgrass, Azure IoT Edge, and Alibaba Cloud Link IoT Edge makes UR75 an intelligent gateway for data acquisition and computing at field as well as a reliable networking communication platform for large scale deployment.

64-bit ARM Cortex™-A53 Processor

512 MB DDR3 RAM

M.2 SSD for Extended Storage

CERTIFIED EDGE COMPUTING CAPABILITY

AWS Greengrass

Azure IoT Edge

Link IoT Edge

Accelerate Your IoT Deployment

Edge-to-Cloud Data Acquisition

- Data converter for Modbus-to-MQTT conversion
- Various interfaces for connecting end-devices

Cloud-Ready

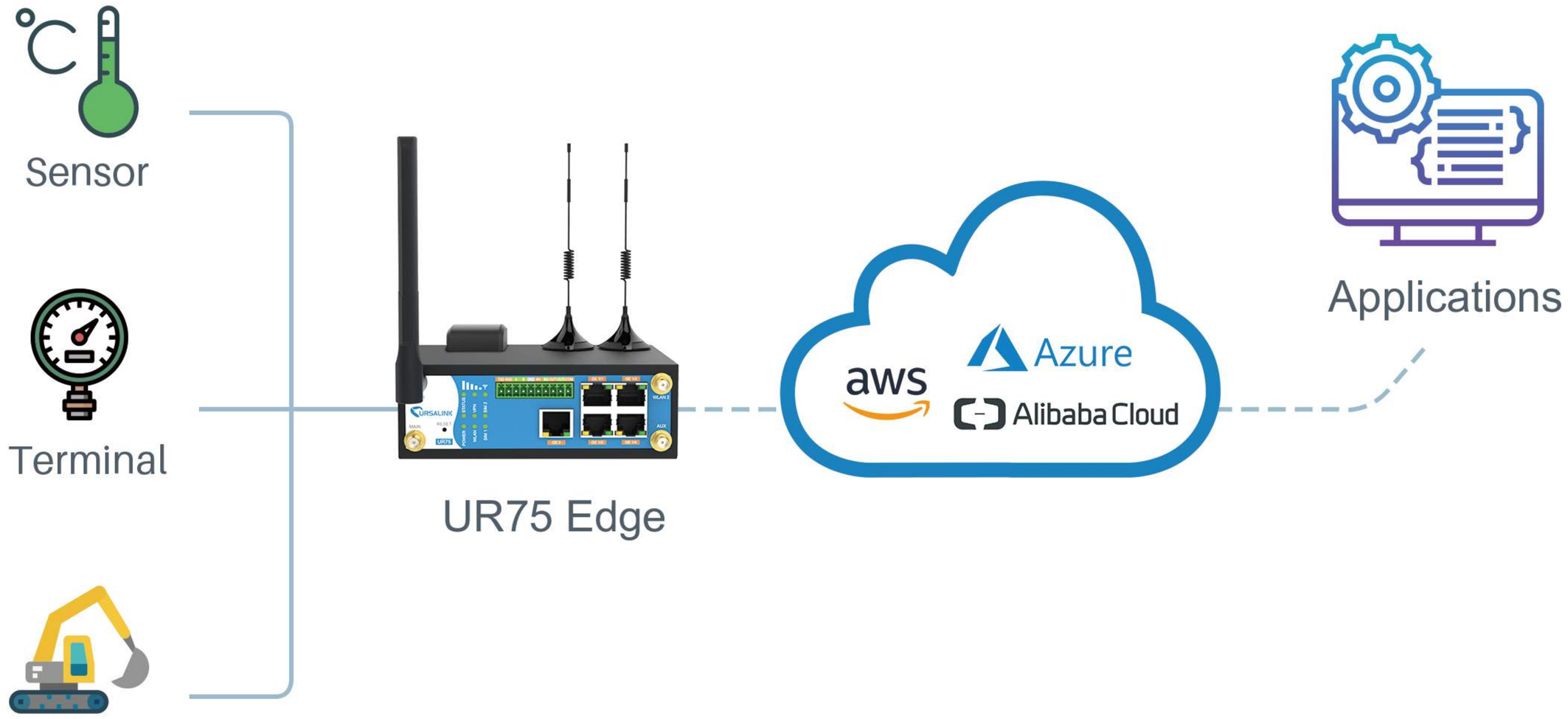
- Easy to access cloud service with built-in IoT client/SDKs
- Certified by Azure, AWS, Exosite and Alibaba Cloud

Secure Transmission

- Multiple VPN protocols for remote access
- Stateful firewall for secure data transmission

Reliable Connectivity

- Fail-over between cellular and Ethernet
- Store and resend data when the network is available



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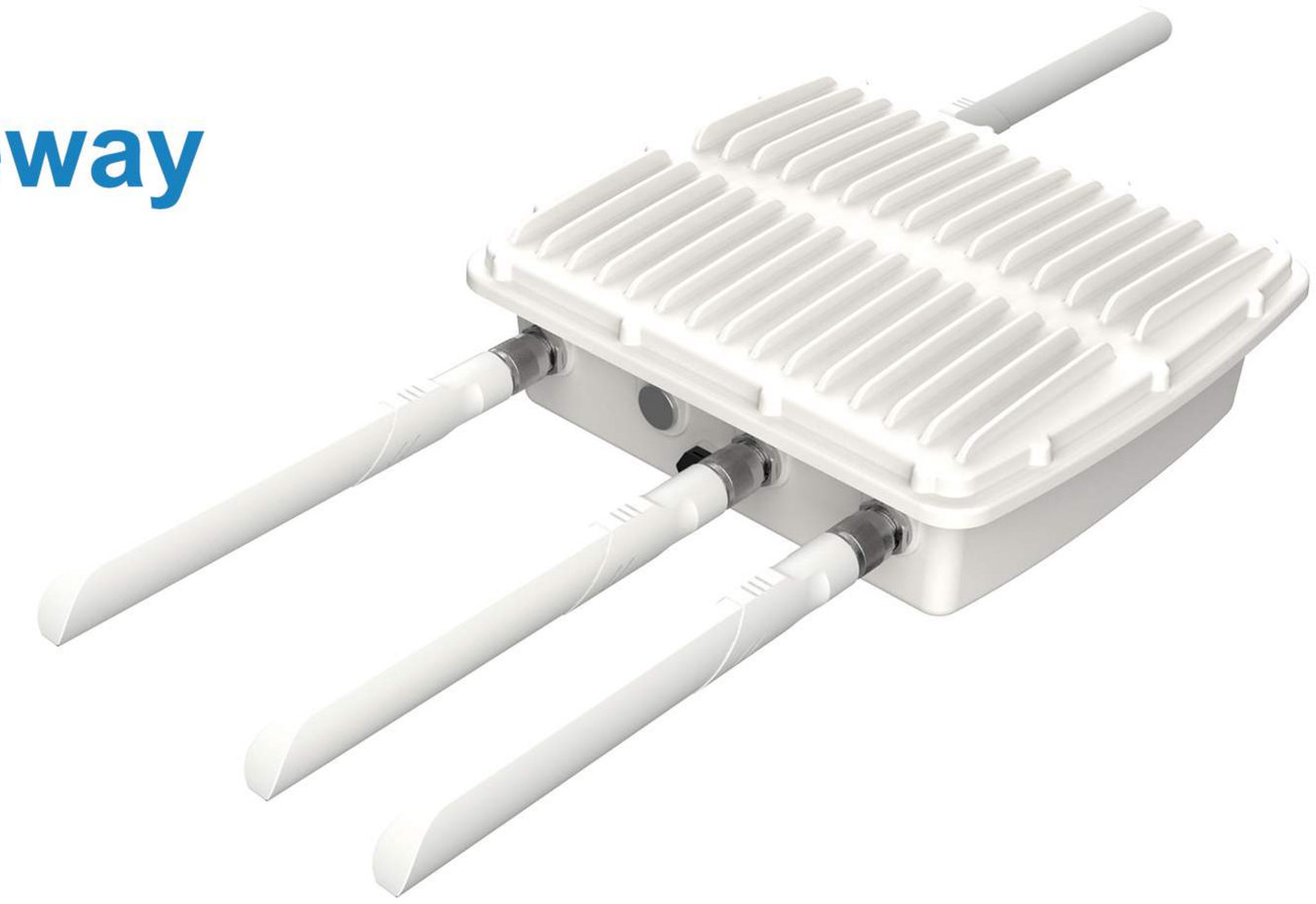
UG85 / UG87
LoRaWAN Gateway

- Scalable
- Manageable
- Customizable



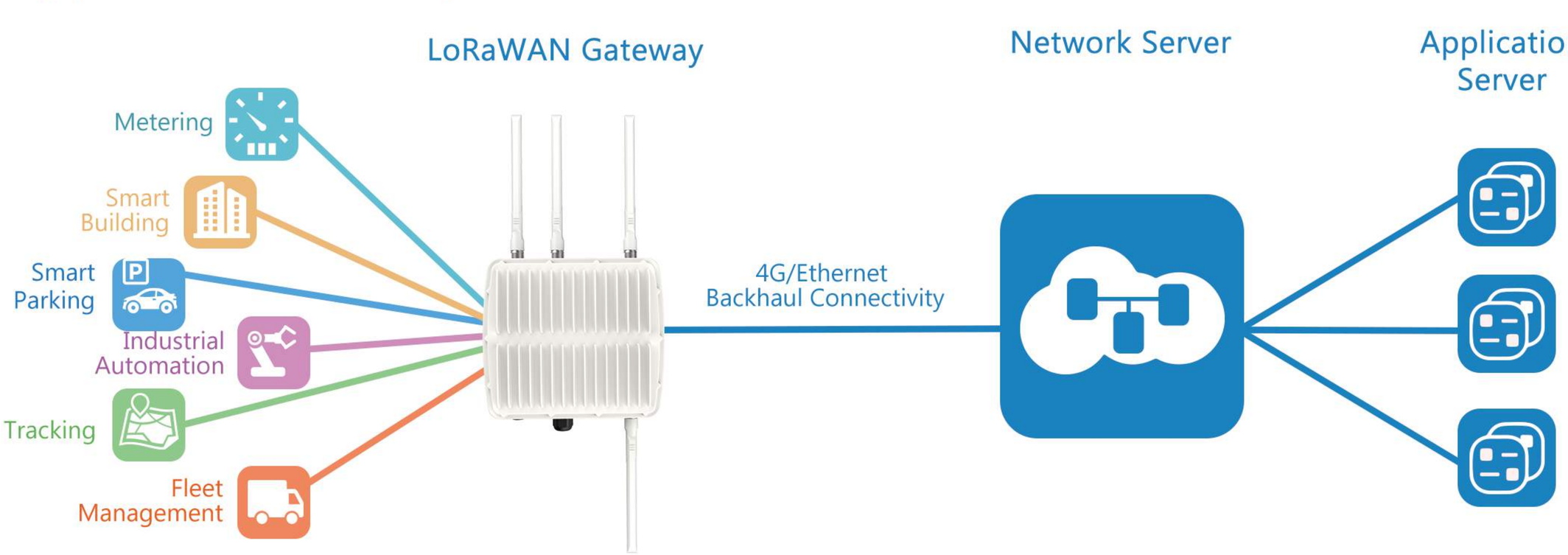
Introduction

Ursalink UG85/UG87 is an Industrial Gateway based on LoRaWAN technology, built perfectly for developing Internet of Things applications. It features Edge and Fog computing capabilities with Python programming supported to match different use cases in the field. This customizable device is designed to bring hardware and software flexibility for overcoming the IoT technical challenges.

Highlights

- IP67 Waterproof
- Supporting 8/16 Simultaneous Channels
- Built-in Serial Ports, DI/DO and GPS Capability
- LoRa Band Available at 433/470/868/902/920 MHz and so on
- Long Range over 5 Kilometers Radius
- Flexible Backhaul Connectivity (Eth/4G)
- Free Embedded Network Server
- Fully Interoperable with Multiple LoRaWAN™ Compliant Network Servers (such as TTN, LORIOT, ThingPark)

Application Example



Specifications

Model	UG85	UG87
Hardware		
Processor	800 MHz, 64-bit ARM Cortex-A53	
Memory	8 GB Flash, 512 MB DDR3 RAM	
Weight	271g (0.60 lb)	1874 g (4.13 lb)
Power Supply	9-48 VDC (Default) PoE PD (Optional)	PoE PD (Default) 9-48 VDC (Optional) AC 220V (Optional)
Dimensions	108 x 90 x 26 mm (4.25 x 3.54 x 1.02 in)	254 x 222 x 89 mm (10 x 8.75 x 3.5 in)
Software		
Network Protocol	PPP, PPPoE, TCP, UDP, DHCP, ICMP, NAT, HTTP, HTTPs, DNS, ARP, NTP, SMTP, Telnet, SSH2, DDNS, etc.	
VPN Tunnel	OpenVPN, IPsec, PPTP, L2TP, DMVPN, GRE	
Serial Port	Transparent, TCP Client/Server, UDP, Modbus Gateway	
Connectivity		
Cellular (Optional)	2 × SIM Slot, Support for Global GSM/3G/4G LTE Frequency Bands	
Wi-Fi (Optional)	IEEE 802.11b/g/n/ac	
Ethernet	1 x 10/100/1000 Mbps	
Console	1 x Console	
GPS+GLONASS	Optional	Yes
Serial	1 × RS232	N/A
I/O	1 × DI + 1 × DO	N/A
LoRaWAN		
Channel	8	8 / 16
Frequency Band	EU433, EU868, US902, AU915, CN470, AS923, KR920 and so on	
Sensitivity	-140dBm Sensitivity @292bps	
Output Power	27dBm Max	
Protocol	V1.0 Class A/Class C and V1.0.2 Class A/Class C	
Others		
Operating Temperature	-40°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)	
Relative Humidity	0% to 95% (non-condensing) at 25°C/77°F	
Ingress Protection	IP30	IP67

Mounting		Desktop, Wall or DIN Rail Mounting	Wall or Pole Mounting	
Certifications		RoHS, CE, FCC		
Frequency Band*	E	LTE: B1/B3/B5/B7/B8/B20/B38/B40/B41	3G: B1/B5/B8	GSM: B3/B8
	EU	LTE: B1/B3/B7/B8/B20/B28A/B38/B40/B41	3G: B1/B8	GSM: B3/B8
	AF	LTE: B2/B4/B5/B12/B13/B14/B66/B71	3G: B2/B4/B5	
	AU	LTE: B1/B2/B3/B4/B5/B7/B8/B28/B40	3G: B1/B2/B5/B8	GSM: B2/B3/B5/B8

* Can't find your frequency bands? Contact us.

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UR32/35 Industrial Cellular Router

Cost-Effective Networking Platform for M2M Applications

Dual SIM Backup with High-Speed LTE Network

Establishes Connections between Remote PLC and SCADA

Supports Modbus TCP and Modbus RTU Protocols

Comprehensive Industrial Interfaces: Serial Port, DI/DO

Multiple Encryption Tunnels for Data Transmission Security

Remote Management Platform Supported

Specifications

		UR32	UR35	
Capabilities	CPU	528 MHz, 32-bit ARM Cortex-A7		
	Flash	128 MB		
	Memory	128 MB DDR3		
	Built-in	Watchdog		
	GPS (Optional)	GPS + GLONASS		
	Micro SD	Supports micro SD card up to 128 GB		
Interfaces	SIM Slots	2		
	Ethernet Ports	2 x 10/100 Mbps	5 x 10/100 Mbps	
	Serial Ports	1 x RS232	1 x RS232 +1 x RS485	
	DI/DO	1 × DI + 1 × DO		
	Antenna Connectors	2 x Cellular Connectors, 1 x Wi-Fi /1 x GPS Connector	2 x Cellular Connectors, 1 x Wi-Fi 1 x GPS Connector	
Network	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, SSH		
	AAA	RADIUS, TACACS+, LDAP, Local Authentication		
	Firewall	URL Filtering/ACL/DMZ/Port Mapping/MAC Binding/SPI/Dos/DDos		
	Wi-Fi (Optional)	IEEE 802.11b/g/n		
	Serial Port	Transparent (TCP Client/Server, UDP), Modbus Gateway (Modbus RTU to Modbus TCP), Modbus Master		
	Reliability	VRRP, WAN Fail-over, Dual SIM Backup		
	VPN	OpenVPN, IPsec, PPTP, L2TP, DMVPN, GRE		
Maintenance	Management	Web, CLI, SMS, Watchdog, On-demand Dial Up		
	Multilevel Authority	Multiple Levels of User Authority		
Hardware	Power Input	9-48 VDC		
	Power Output (Optional)	2 × 802.3af/at PoE PSE	4 × 802.3af/at PoE PSE	
	Ingress Protection	IP30		
	Housing & Weight	Metal, 271g (0.60lb)	Metal, 481 g (1.06 lb)	
	Dimensions	108 x 90 x 26 mm (4.25 x 3.54 x 1.02 in)	135 x 100 x 45 mm (5.31 x 3.94 x 1.77 in)	
	Mounting	Desktop, Wall or DIN Rail Mounting		
Others	Operating Temperature	-40°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)		
	Relative Humidity	0% to 95% (non-condensing) at 25°C/77°F		
	Certifications	RoHS, CE, FCC		
	Frequency Band* E	LTE: B1/B3/B5/B7/B8/B20/B38/B40/B41	3G: B1/B5/B8	GSM: B3/B8
	Frequency Band* EU	LTE: B1/B3/B7/B8/B20/B28A/B38/B40/B41	3G: B1/B8	GSM: B3/B8
	Frequency Band* AF	LTE: B2/B4/B5/B12/B13/B14/B66/B71	3G: B2/B4/B5	
	Frequency Band* AU	LTE: B1/B2/B3/B4/B5/B7/B8/B28/B40	3G: B1/B2/B5/B8	GSM: B2/B3/B5/B8

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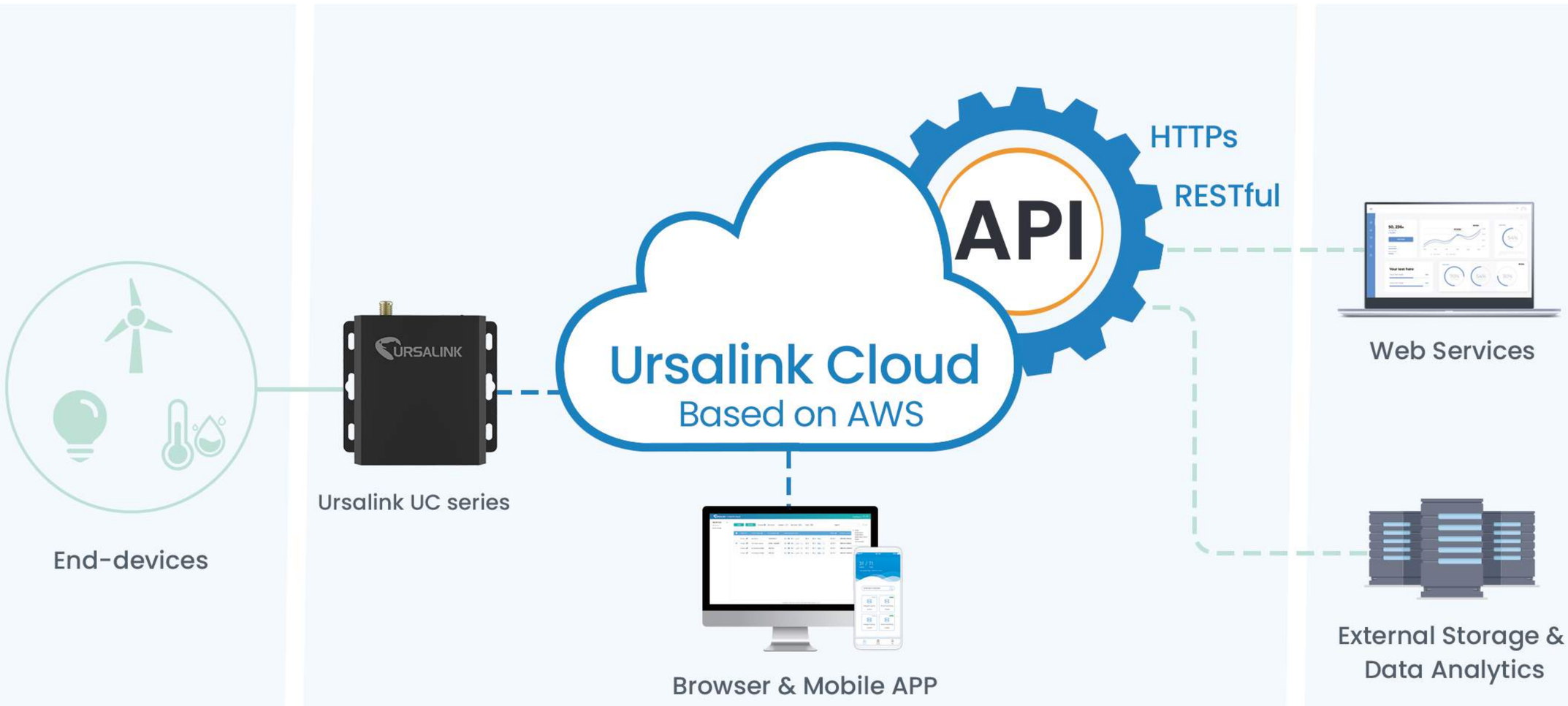
We Connect Things to Cloud

The Ursalink Cloud provides unparalleled levels of vertical integration with Ursalink UC series and links vertical, back-end applications to remote assets.

- Configure Ursalink UC series without going to site
- Control your field devices from anywhere
- Monitor both Ursalink UC series and end-devices
- Transform data into developer accessible APIs



Reduce Time & Cost

Control and monitor field devices On Web or App

Facilitate Cloud Integration

Reduce the complexity of network design

Merge Legacy Asset

Retrofit legacy equipments into IoT initiatives

Ursalink UC Series

The compact Ursalink UC series is designed for monitoring and controlling field devices, and collecting data to cloud.

- Synchronize configuration from Ursalink Cloud
- Controlled by custom logic formula
- Operate autonomously while network is unavailable

Model	Analog Input	Digital Input	Relay Output	RS232	RS485	Network
UC1114	/	2	2	/	/	LoRaWAN
UC1122	2	1	1	/	/	
UC1152	/	1	1	1	1	
UC3x14	/	2	2	/	/	2G/3G/4G LTE-M* NB-IoT*
UC3x22	2	1	1	/	/	
UC3x52	/	1	1	1	1	

* On the roadmap

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UR7x Series Industrial Cellular Router

Reliable and Remote-Manageable for Large Scale M2M Deployment

Embedded Processor 800MHz
64-bit and 256 MB RAM

Features Gigabit Ethernet Port(s)
for Fast Data Transmission

Supports Modbus Gateway,
Modbus Master/Slave

Supports Python SDK
for Secondary Development

Remote Management Platform
Supported

AWS, Azure, ThingWorx IoT Platform
Readiness

Specifications

		UR71	UR72	UR75	
Capabilities	CPU	800 MHz, 64-bit ARM Cortex-A53			
	Flash	64 MB			
	Memory	256 MB DDR3			
	Built-in	Watchdog, RTC			
	GPS	GPS + GLONASS			
	SSD	N/A	M.2 slot supports SATA M.2 SSD (22 x 42 mm) up to 512 GB		
	Micro SD	Supports micro SD card up to 128 GB			
Interfaces	SIM Slots	2			
	Ethernet Ports	1 × 10/100/1000 Mbps	2 × 10/100/1000 Mbps	5 × 10/100/1000 Mbps	
	Serial Ports	1 × RS232 or 1 × RS485	1 x RS232 + 1 x RS485 or 2 x RS232 or 2 x RS485		
	Digital (I/O)	N/A	2 × DI + 2 × DO		
	Antenna Connectors	2 x Cellular Connectors (Center Pin: SMA Female)	2 x Cellular Connectors, 2 x Wi-Fi Connector, 1 x GPS Connector (Center Pin: SMA Female)		
Network	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, SSH			
	AAA	RADIUS, TACACS+, LDAP, Local Authentication			
	Firewall	URL Filtering/ACL/DMZ/Port Mapping/MAC Binding/SPI,Dos/DDos			
	Wi-Fi	N/A	IEEE 802.11b/g/n/ac (2 x 2 MIMO)		
	Serial Port	Transparent (TCP Client/Server, UDP), Modbus Gateway (Modbus RTU to Modbus TCP), Modbus Master			
	VPN	OpenVPN, IPsec, PPTP, L2TP, DMVPN, GRE			
	Reliability	VRRP, WAN Failover, Dual SIM Backup			
Maintenance	Management	Web, CLI, SMS, Watchdog, On-demand Dial Up			
	Multilevel Authority	Multiple Levels of User Authority			
Hardware	Power Input	9-48 VDC			
	Power Consumption	Typical 2.0 W (Max 3.0 W)	Typical 2.6 W (Max 4.5 W)	Typical 3.0 W (Max 5.5 W)	
	Ingress Protection	IP30			
	Housing & Weight	Metal, 369 g (0.81 lb)	Metal, 471 g (1.04 lb)	Metal, 492 g (1.08 lb)	
	Dimensions	100 x 96.1 x 30 mm (3.94 x 3.78 x 1.18 in)	132 x 103.8 x 45 mm (5.20 x 4.09 x 1.77 in)		
	Mounting	Desktop, Wall or DIN Rail Mounting			
Others	Operating Temperature	-40°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)			
	Relative Humidity	0% to 95% (non-condensing) at 25°C/77°F			
	Certifications	RoHS, CE, FCC, E-mark			
	Frequency Band* E	LTE: B1/B3/B5/B7/B8/B20/B38/B40/B41	3G: B1/B5/B8	GSM: B3/B8	
	Frequency Band* EU	LTE: B1/B3/B7/B8/B20/B28A/B38/B40/B41	3G: B1/B8	GSM: B3/B8	
	Frequency Band* AF	LTE: B2/B4/B5/B12/B13/B14/B66/B71	3G: B2/B4/B5		
	Frequency Band* AU	LTE: B1/B2/B3/B4/B5/B7/B8/B28/B40	3G: B1/B2/B5/B8	GSM: B2/B3/B5/B8	

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UrsalinkVPN

The UrsalinkVPN is the core component of UrsalinkVPN solution. Typically it is offered as a service hosted by Ursalink, or by our distributors, but you can also choose to host your own UrsalinkVPN.

The UrsalinkVPN acts as a secure termination point for all Ursalink routers and offers seamless communication originated by the customers to their machines. It is generally used in the industrial M2M communication sector. The key of architecture is the central server, which handles all connections and the encrypted traffic between customers and devices controlled by Ursalink routers. Through the web-based UrsalinkVPN portal, you can manage account, routers and devices, etc.

- Centralized Management
- Multi-users Access Simultaneously
- Up to 1000 Devices
- Connection Status Overview
- Secure Internet Access to Remote Stations

Software Requirements

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

Hardware Requirements

Your host hardware must meet the following minimum requirements:

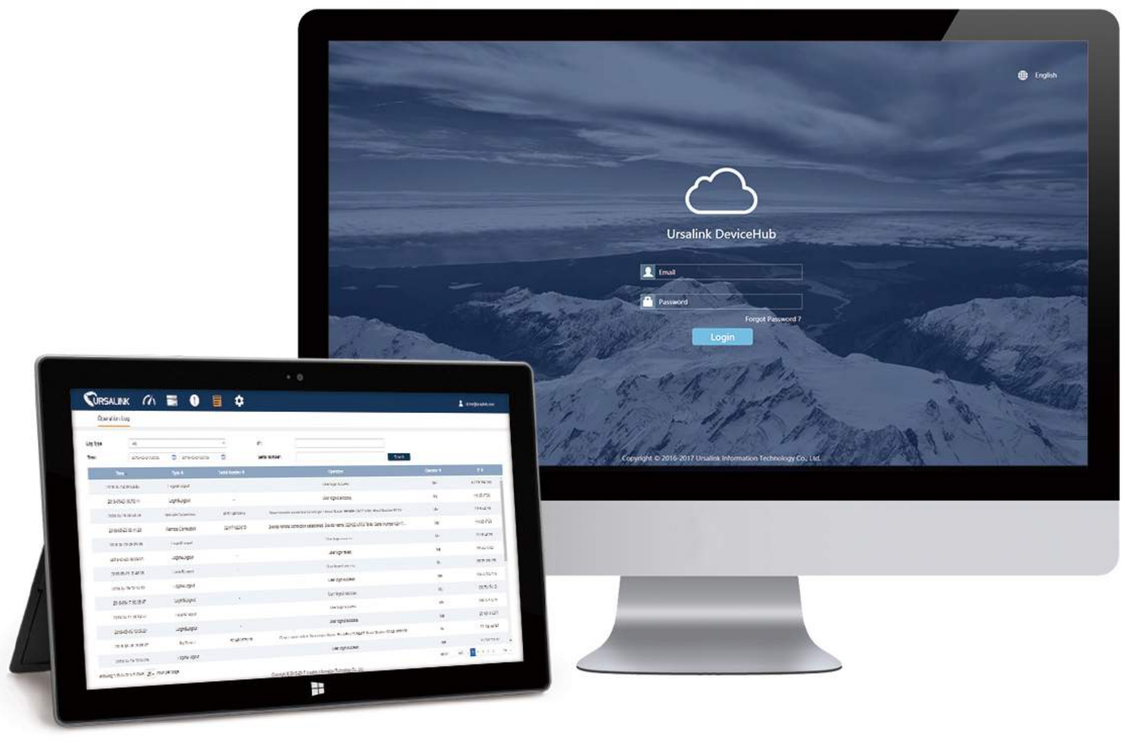
For 500 devices

- RAM: 16 GB
- CPU: 2 Cores, 2.0 GHz
- Disk: 512 GB
- Bandwidth: ≥100 Mbps

For 1000 devices

- RAM: 32 GB
- CPU: 8 Cores, 3.2 GHz
- Disk: 1 TB
- Bandwidth: ≥100 Mbps

Ursalink DeviceHub



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

The Ursalink DeviceHub is now able to monitor all critical parameters of remote routers, 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.

Device Configuration
Configure device and synchronize profiles

Firmware Upgrade
Upgrade firmware in bulk remotely

Real-Time Monitoring
Acquire device's temp, location, signal strength and more

Comprehensive Report
Generate reports of failed connection, profile updates, firmware upgrade, etc.

Alternative Hosting
Hosted by Ursalink or on your own server

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