



WE CONNECT THINGS TO CLOUD









Customer-Centric R & D Strength

Innovation-Driven Global Readiness









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.

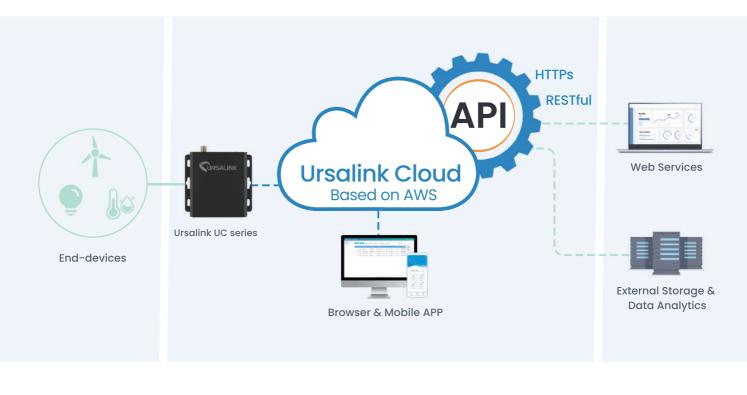




We Connect Things to Cloud

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





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	/	/	
UC1122	2	1	1	/	/	LoRaWAN
UC1152	/	1	1	1	1	
UC3x14	/	2	2	/	/	2G/3G/4G
UC3x22	2	1	1	/	/	LTE-M [*] NB-IoT [*]
UC3x52	/	1	1	1	1	

* On the roadmap



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We Connect Things to Cloud



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

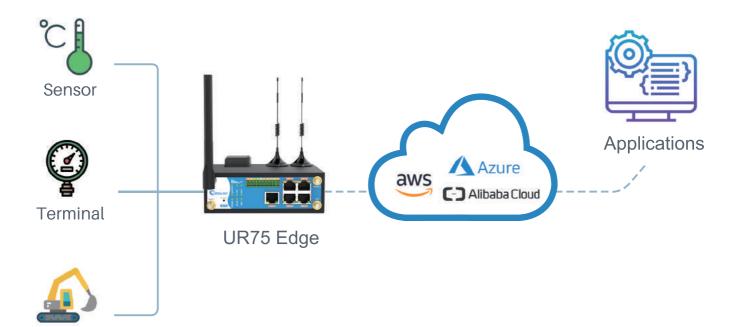
Stateful firewall for secure data transmission



Reliable Connectivity

Fail-over between cellular and Ethernet

> Store and resend data when the network is available





Machine





Ursalink UG 87 LoRaWAN Gateway

- Scalable
- Manageable
- Customizable

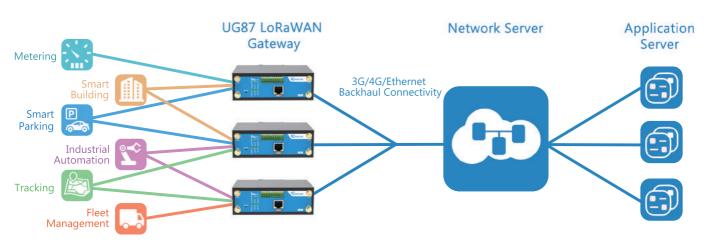


Introduction

Ursalink 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

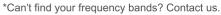
- IP67 Waterproof
- Supporting 8 Simultaneous Channels
- Complying with LoRaWAN Protocol V1.0/V1.0.2
- LoRa Band Available at 433/470/868/902/920 MHz
- Long Range over 5 Kilometers Radius
- Flexible Backhaul Connectivity (Eth/3G/4G)
- Built-in Serial Ports, DI/DO and GPS Capability
- Fully Interoperable with Multiple LoRaWAN™ Compliant Network Servers



Application Example

Specifications

Model		UG87-In	UG87-Out				
Hardware							
Processor		800 MHz, 64-bit ARM Cortex-A53					
Memory		4 GB Flash, 512	MB DDR3 RAM				
Power Supply		9-48 VDC Input					
Dimensions		132 x 103.8 x 45 mm (5.20 x 4.09 x 1.77 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, VLAN, SSH2, DDNS, etc.					
VPN Tunnel		OpenVPN, IPsec, PPTP, L2TP, DMVPN, GRE					
Serial Port		Transparent, TCP Client/Ser	ver, UDP, Modbus Gateway				
Connectivity							
Ethernet		1 × WAN or 1 × LAN					
Cellular		2 × SIM Slot, Support for Global GSM/3G/4G LTE Frequency Bands					
	Е	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/B4	1 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				
Serial		1 × RS232					
Digital LoRaWAN		2 × DI +	2 × D0				
Channel		8					
Frequency Band		EU433, EU868, US902, AU915, CN470, AS923, KR920					
Sensitivity		-140dBm Sensitivity @292bps					
Output Power		27dBm Max					
Protocol		V1.0 Class A/Class C and V1.0.2 Class A/Class C					
Environmental							
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				
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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

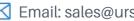
Specifications

			UR71	UR7	72	UR75		
CPU			800 MHz, 64-bit ARM Cortex-A53					
Capabilities	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	$2 \times DI + 2 \times DO$				
-	Antenna Connectors		2 x Cellular Connectors (Center Pin: SMA Female)	2 x	2 x Cellular Connectors, 2 x Wi-Fi Connector, 1 x GPS Connector (Center Pin: SMA Female)			
	Network Protoco	ls	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		ACL/DMZ/Port Mapping/MAC Binding					
Network	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					
	Management		Web, CLI, SMS, Watchdog, On-demand Dial Up					
laintenance	Multilevel Author	ity	Multiple Levels of User Authority					
	Power Input			9-48 VDC				
	Power Consumpt	ion	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	n		IP30				
Hardware	Housing & Weig	ht	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					
	Operating Temperature		-40°C to +70°C (-40°F to +158°F) Reduced cellular performance above 60°C					
Others	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/E	338/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		





Web: www.ursalink.com



🔀 Email: sales@ursalink.com



UR5x Series 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



Dual-Band Wi-Fi Compliance with 802.11b/g/n/ac



Comprehensive Industrial Interfaces: Serial Port, DI/DO



Multiple Encryption Tunnels for Data Transmission Security



Integrated GPS with High Accuracy Positioning

Specifications

			UR51	UR52		UR55		
CPU		528 MHz, 32-bit ARM Cortex-A7						
Capabilities	Flash		128 MB					
	Memory		128 MB DDR3					
	Built-in		Watchdog, RTC					
	GPS		GPS + GLONASS					
	Micro SD		Supports micro SD card up to 128 GB					
Interfaces	SIM Slots		2					
	Ethernet Ports		1 x 10/100 Mbps (Optional: PoE Output)	2 x 10/100) Mbps	5 x 10/100 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 Connect	ors	2 x Cellular Connectors, 1 x Wi-Fi Connector, 1 x GPS Connector (Center Pin: SMA Female)					
	Network Protoco	ols	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		ACL/DMZ/Port Mapping/MAC Binding					
Network	Wi-Fi		IEEE 802.11b/g/n/ac					
	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 Fail-over, Dual SIM Backup					
	Management		Web, CLI, SMS, Watchdog, On-demand Dial Up					
laintenance	Multilevel Authority		Multiple Levels of User Authority					
	Power Input		9-48 VDC (48 V Power Input is Needed for 802.3af PoE Output)	9-48 VDC				
	Power Output		1 × 802.3af PoE Output	N/A				
	Power Consumption		Typical 1.8 W (Max 2.7 W) in non-PoE mode	Typical 2.5 W (Typical 2.5 W (Max 4.1 W) Typical 2.8 W (M			
Hardware	Ingress Protection	on	IP30					
	Housing & Weig		Metal, 365 g (0.80 lb)			Metal, 481 g (1.06 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					
	Operating Temperature							
Others	Storage Temperature		-40°C to +85°C (-40°F to +185°F)					
	Relative Humidity		0% to 95% (non-condensing) at 25°C/77°F					
			RoHS, CE, FCC					
	Certifications							
		E	LTE: B1/B3/B5/B7/B8/B20/B38/B40/B41		3G: B1/B5/B8			
	Frequency Band [*]	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		





Web: www.ursalink.com



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



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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





Email: sales@ursalink.com

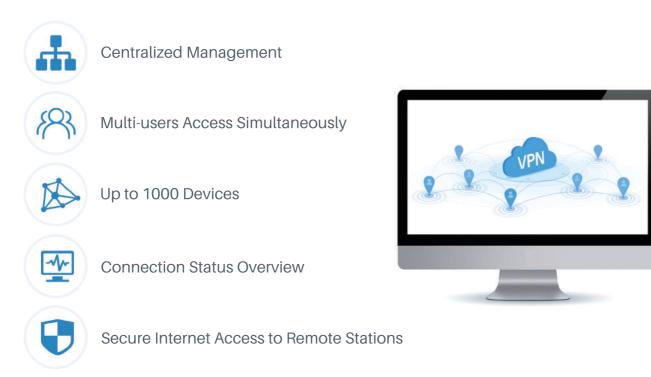


Web: www.ursalink.com



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.



Software Requirements



Hardware Requirements

Your host hardware must meet the following minimum requirements:

For 500 devices

For 1000 devices

RAM: 16 GB CPU: 2 Cores, 2.0 GHz

- V RAM: 32 GB V CPU: 8 Cores, 3.2 GHz
- ✓ Disk: 512 GB ✓ Bandwidth: ≥100 Mbps
- ✓ Disk: 1 TB ✓ Bandwidth: ≥100 Mbps