



UR1000

The UR1000 is a highly integrated, 1U rack-mountable aggregation router developed by Univiso. Powered by the proprietary i-Mux multi-link aggregation engine, it features up to six built-in 5G modems and high-performance dual-band Wi-Fi 6, delivering a maximum aggregate throughput of 1 Gbps.

For central management, the system supports flexible deployment options, including on-premise private network deployment or integration with the lightweight Univiso Spark cloud platform. This architecture provides highly reliable mobile network solutions for mission-critical scenarios such as broadcasting, emergency response, public security, and firefighting.

Future-Proof Modularity:

All six internal modems utilize M.2 interfaces. This design ensures the device remains future-proof throughout the technological evolution of 5G, 5G-A, and even 6G, allowing users to capitalize on future mobile communication advancements with minimal upgrade costs.

Versatile Networking:

The UR1000 supports diverse operating modes, including SNAT for public network access and DNAT for remote reverse access, providing flexible networking support for upper-layer applications.

Main function:

- **Multi Link Aggregation:** Capable of aggregating up to 14 network links per device—including 6 *built-in 5G modems, 2*USB dongles, and 6*Gigabit Ethernet ports—delivering a data throughput of up to 1 Gbps.
- **Intelligent i-Mux Engine:** Integrates the i-Mux aggregation transmission engine with base station optimization and intelligent handover technology. It automatically detects and registers with networks offering optimal signal quality while in motion, ensuring the system maintains the best possible aggregated bandwidth.
- **Ruggedized Connectivity:** Features a 4-in-1 automotive-grade external antenna interface. This allows for the efficient connection of 4 external antennas via a single plug-and-play operation, significantly simplifying deployment and maintenance.
- **Flexible Ethernet Configuration:** Equipped with 6 independent Gigabit Ethernet ports, allowing users to flexibly define the number of WAN and LAN ports based on on-site requirements.
- **Versatile Networking Modes:** Supports a variety of operational modes, including non-aggregated intelligent routing, SNAT, and DNAT, to accommodate diverse networking and application scenarios.
- **Multi-Channel Management:** Offers comprehensive management and O&M capabilities through a local touch screen, local Web interface, and server Web interface, catering to different deployment needs.
- **Flexible Server Deployment:** The central aggregation server supports multiple deployment models to suit specific user scenarios, including local private network (on-premise), local public network, and cloud deployment.

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Technical Specifications:

Product model	UR1000-4G	UR1000-5G	UR1000-5G H
Network Links	Internal 6*4G modems + external 2*modems	Internal 3*4G+3*5G modems + external 2*modems	Internal 6*5G + external 2*modems
Frequency bands	5G NR: n1/n2/n3/n5/n7/n8/n12/n13/n14/n18/n20/n25/n26/n28/ n29/n30/n38/n40/ n41/n48/n66/n71/n75/n76/n77/n78/n79 LTE-FDD: B1/B2/B3/B4/B5/B7/B8/B12/B13/B14/B17/B18/B19/ B20/B25/ B26/B28/B29/ B30/B32/B66/B71 LTE-TDD: B34/B38/B39/B40/B41/B42/B43/B46/B48 WCDMA: B1/B2/B4/B5/B8/B19		
Wireless Network	Wi-Fi Protocol Standards: IEEE 802.11 a/b/g/n/ac/ax Wi-Fi Operating Bands: 2.4 GHz and 5 GHz		
Wired Network	6 independent Gigabit Ethernet ports with configurable WAN/LAN assignment.		
Antenna Deployment	6 sets of 4-in-1 external antenna interfaces and 2 sets of Wi-Fi antennas.		
Central-Side Solution	Private Aggregation Server or Spark Cloud.		
Transport Protocols	TCP,UDP.		
Application Protocols	FTP、HTTP/HTTPS、RTP/RTSP、RTMP、SRT、NTP、TELNET...		
Transmission Mode	Flexible selection between multi-link aggregation and single-link transmission.		
Single-Link selection	Automatic Intelligent Selection		
Aggregated Bandwidth	Peak bandwidth of 1 Gbps.		
System Management	Screen, PC Web, H5		
Power Input	AC 110~220V		
Dimensions	Standard 1U rack-mount design, Dimensions: W480mm × H44.5mm × D350mm		
Operating Environment	Operating Temperature: -20°C ~ 50°C Storage Temperature: -40°C ~ 75°C Operating Humidity: 5% ~ 95% (Non-condensing)		

External Antenna Technical Specifications:

Basic Information	Name	5G 4-in-1 screw-mount external antenna	
	model	/	
Electrical Specifications	Frequency Range	2*LMH	600~960 MHz、1400~6000 MHz
		2*MH	1400~6000 MHz
	Radiation Pattern	Omni	
	Polarization	Linear	
	Impedance	50 Ω	
	VSWR	≤-6.9 dB	
Mechanical Specifications	Antenna Dimensions	Φ 103.5 mm × 42.5 mm	
	Cable Length	5m	
	Housing Material & Color	PC&black	
Connector Type	Weight	Approx. 199g	
	Mounting Type	Screw-mount	
Environmental	Operating Temperature	-40°C ~ +85°C	
	Ingress Protection (IP) Rating	IP67(After Installation)	
	Shock Resistance	IK09	