



# UR75 Ultra Series High-Performance 5G Industrial Router



## APPLICATIONS

- SMART GRID
- DIGITAL MEDIA INSTALLATIONS
- INDUSTRIAL AUTOMATION
- FINANCE
- ENVIRONMENT PROTECTION
- TELEMETRY EQUIPMENT
- MEDICAL DEVICE
- DIGITAL FACTORY
- PAYMENT DEVICE
- WATER CONSERVANCY

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## FEATURES

### QUALCOMM QUAD-CORE CPU

SSD is available to support further development and customize requirements

### GIGABIT ETHERNET PORTS

for lightning transmission of data

### QUICKLY DEVELOP FUNCTIONS

with Function Compute and deploy them seamlessly to edge nodes

### SECURE TRANSMISSION WITH VPN TUNNELS

s like IPsec/OpenVPN/GRE/L2TP/PPTP/DMVPN

- LINK REMOTE DEVICES in an environment where communication technologies are constantly changing
- RUGGED ENCLOSURE, OPTIMIZED for DIN rail or shelf mounting
- WEB GUI AND CLI simple management and quick configuration among a large quantity of devices
- EFFICIENTLY MANAGE THE REMOTE ROUTERS on the existing platform through the industrial standard SNMP



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## SPECIFICATIONS

### Hardware System

CPU	Qualcomm Quad-core ARM Cortex-A7, 716.8 MHz
Memory	512 MB DDR3 RAM and 8 GB Flash
Extendable Storage	1 × M.2 NVMe SSD Interface

### Cellular Interface

Antenna	UR75-5G: 4 × 50 Ω SMA Connectors (Center PIN: SMA Female) UR75-4G: 2 × 50 Ω SMA Connectors (Center PIN: SMA Female)
SIM Slot	2 (Mini SIM-2FF)

### Ethernet Interface

Numbers	5 × 10/100/1000 Mbps
Property	1 × WAN +4 × LAN
Mode	Full or half duplex (Auto-Sensing)
PoE	4 × 802.3 af/at PoE PSE on LAN Ports (Optional)

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### Wi-Fi Interface

Antenna	2 × 50 Ω SMA Connectors (Center PIN: RP-SMA Female)
Standards	IEEE 802.11 b/g/n, 2.4 GHz IEEE 802.11 a/n/ac, 5 GHz
Tx Power	2.4G: 26dBm(max) 5G: 26.4dBm(max)

#### Rx Sensitivity

2.4 GHz	802.11b: ≤ -92dBm@11Mbps 802.11g: ≤ -78dBm@54Mbps 802.11ac VHT20: ≤ -91dBm@MCS0 802.11ac VHT20: ≤ -66dBm@MCS8 802.11ac VHT40: ≤ -88.5dBm@MCS0 802.11ac VHT40: ≤ -64dBm@MCS8
5 GHz	802.11a: ≤ -91dBm@6Mbps 802.11a: ≤ -76dBm@54Mbps



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	802.11ac VHT20: $\leq -90\text{dBm@MCS0}$
	802.11ac VHT20: $\leq -68\text{dBm@MCS8}$
	802.11ac VHT40: $\leq -87\text{dBm@MCS0}$
	802.11ac VHT40: $\leq -65\text{dBm@MCS9}$
	802.11ac VHT80: $\leq -84\text{dBm@MCS0}$
	802.11ac VHT80: $\leq -60\text{dBm@MCS9}$
Modes	AP and Client mode
Security	WPA/WPA2 authentication, WEP/TKIP/AES encryption

## GPS

Antenna	1 × 50 Ω SMA Connector (Center PIN: SMA Female)
Technology	GPS/GLONASS/Beidou/Galileo/QZSS

## Serial Interface

Numbers	1 × RS232 + 1 × RS485 (2 × RS485 Optional)
Connector	3.5mm Terminal Block
Baud Rate	300bps to 230400bps

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## DI/DO

Numbers	1 × DI (dry contact) + 1 × DO (wet contact), Galvanic Isolation
Connector	3.5 mm Terminal Block
Maximum V/A	0.3A@30VDC (DO)

## Others

Reset Button	1 × RESET
USB	1 × USB 2.0 (Reserved)
LED Indicators	1 × STATUS, 1 × Cellular Network
Built-in	Watchdog, Timer

## Software

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, etc
VPN	DMVPN, IPsec, OpenVPN, PPTP, L2TP, GRE



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Management	Web, CLI, SMS, On-demand dial up, SNMP v1/v2/v3, DeviceHub
AAA	Radius, Tacacs+, LDAP, Local Authentication
Multilevel Authority	Multiple Levels of User Authority
Reliability	VRRP, WAN Failover, Dual SIM Backup
Serial Port	Transparent (TCP Client/Server, UDP), Modbus Master/Slave, Modbus Gateway (Modbus RTU to Modbus TCP)
Security	Access Control, DMZ, Port Mapping, MAC Binding, SPI Firewalls, DoS&DDoS Protection, Filtering(IP&Domain), IP Passthrough

## Power Supply and Consumption

Power Connector	2-pin 5.08 mm Terminal Block
Input Voltage	9-48 VDC, with Surge-Protection and Reverse Polarity Protection
Power Consumption	≤ 7.9W (In Non-PoE mode)

## Physical Characteristics

Ingress Protection	IP30
Housing	Metal
Dimension	135 x 118 x 45 mm (5.31 x 4.65 x 1.77 in)
Installation	Desktop, Wall or DIN Rail Mounting

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## 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)
Ethernet Isolation	1.5 kV RMS
Relative Humidity	0% to 95% (Non-condensing) at 25°C/77°F

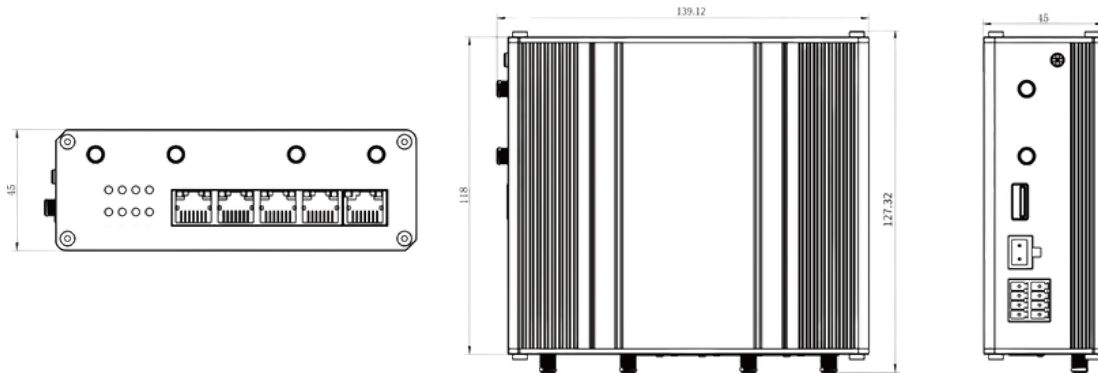
## Approval

Regulatory	RoHS, CCC
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## DIMENSIONS (MM)



## SCHEMATIC DIAGRAM

### Public Application

