IPsec
SECURITY ALL THAT MATTERS

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**

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

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)

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

	802.11ac VHT20: ≤ -90dBm@MCS0
	802.11ac VHT20: ≤ -68dBm@MCS8
	802.11ac VHT40: ≤ -87dBm@MCS0
	802.11ac VHT40: ≤ -65dBm@MCS9
	802.11ac VHT80: ≤ -84dBm@MCS0
	802.11ac VHT80: ≤ -60dBm@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

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

Environmental

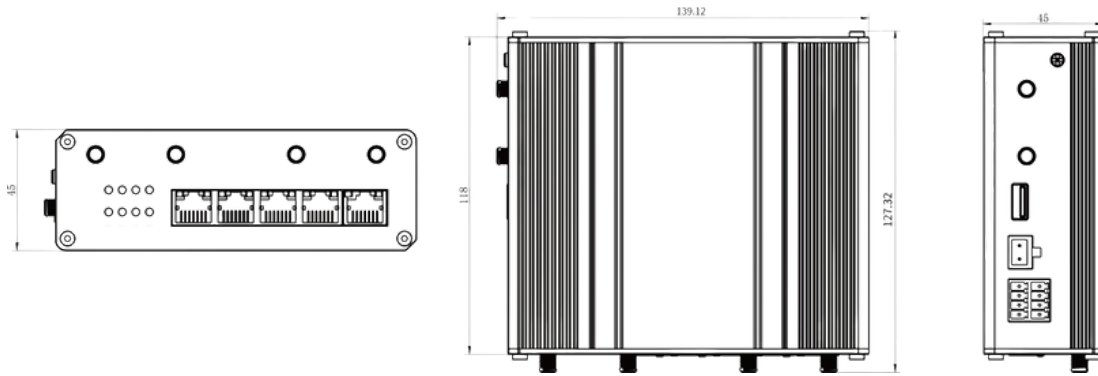|	
Operating Temperature	40°C to +70°C (-40°F to +158°F) Reduced Cellular Performance Above 60°C
Storage Temperature	-40°C to +85°C (-40°F to +185°F)
Ethernet Isolation	1.5 kV RMS
Relative Humidity	0% to 95% (Non-condensing) at 25°C/77°F

Approval

Regulatory	RoHS, CCC

DIMENSIONS (MM)

SCHEMATIC DIAGRAM

Public Application

Terminal Device
IP Camera
Payment Machine
IPC
Lan/Serial

4G/5G
Base Station
UR75-5G

Firewall
Application Server

Cloud

Industrial Application

Sensor
Transformer / Inverter
PLC / RTU
Lan/Serial

Remote Data Center

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