Queclink

WR300FG

High performance and secure dual SIM 5G & Wi-Fi 6 router with GNSS, RS232 and RS485 for various industrial use scenarios

5G SA/NSA

Reliable Connectivity with Dual SIM

IEEE 802.11 a/b/g/n/ac/ax, 2.4/5 GHz

VPN Secure Connection

1 Gigabit Ethernet WAN Interface and 4 Gigabit Ethernet LAN Interfaces

RS232 and RS485 Serial Port, 2 PIN I/O

GNSS Location

The WR300FG is Queclink's first 5G industrial router product in this new field. The WR300FG's 5G global cellular connectivity and industrial interface, combined with Queclink's IoT telematics expertise of 10+ years, create a new range of possibilities for our customers and partners. Its first class Wi-Fi 6 provides faster data transmission rate. RS232 and RS485 ports allow the product to connect and control external devices in various verticals such as intelligent manufacturing, smart energy etc. The product can also be installed in vehicles and build the platform of IoV(Internet of Vehicle) while still offering secure and encrypted VPN tunnels for Ethernet and Wi-Fi connected devices.

Intelligent Industry

Edge Computing

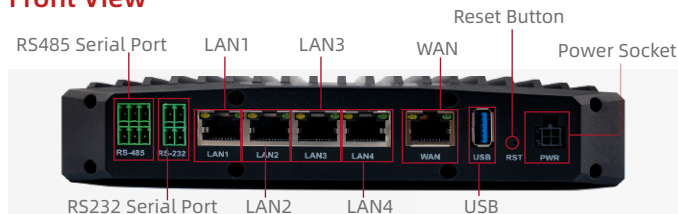IoV (Internet of Vehicle)

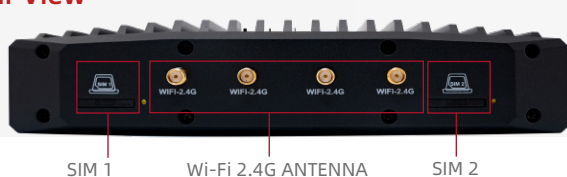Smart City

Smart Energy

Smart Healthcare

WR300FG

Region	Network/Operating Band	Wi-Fi	Ethernet
Global	**5G NR** n1/n2/n3/n5/n7/n8/n12/n20/n28/n38/n40/ n41/n48/n66/n71/n77/n78/n79 **LTE-FDD:** B1/B3/B5/B7/B8/B18/B19/B20/ B26/B28/B32 **LTE-TDD:** B34/B38/39/B40/B41/B42/B43 **WCDMA:** B1/B2/B4/B5/B6/B8/B19 **GSM:** 850/900/1800/1900 MHz	IEEE 802.11 a/b/g/n/ac/ax, 2.4/5 GHz	1 x GbE (WAN) 4 x GbE (LAN)

Front View

RS485 Serial Port — LAN1 — LAN3 — WAN — Reset Button — Power Socket
RS232 Serial Port — LAN2 — LAN4 — USB

Rear View

SIM 1 — Wi-Fi 2.4G ANTENNA — SIM 2

Side View

Wi-Fi 5G Antenna

Mobile 5G Antenna/GPS

Mobile 5G Antenna — Mobile 5G Antenna

Hardware

Item	Description
Dimensions	210mm(L) x 158mm(W) x 45mm(H) 8.19''(L) x 6.16''(W) x 1.76''(H)
Weight	1,070g
Operating Voltage	8V ~ 32V DC
Operating Temperature	-30°C ~ + 75°C -40°C ~ +80°C for storage
Ethernet Port	1 for WAN (10/100/1000Mbps) 4 for LAN (10/100/1000Mbps)
Wi-Fi	IEEE 802.11 a/b/g/n/ac/ax, 2.4/5 GHz
RS232 Serial Port	1
RS485 Serial Port	1
USB Port	1
SIM Slot (Mini SIM)	2
Mobile Antenna	4 x SMA
Wi-Fi Antenna	8 x RP-SMA
Mobile/GNSS 2-in-1 Antenna	1 x SMA
Power Socket	4 Pin (Power, Ground, Digital input, Open collector output)

Item	Description
Input/Output	2 Pin (Digital input, Open collector output)
LED Indicator	Power, Wi-Fi, GPS, Mobile Status, Mobile Signal Strength 2 x WAN, 8 x LAN
Reset Button	1

Software

Item	Description
Operating System	OpenWrt based Linux OS
Alternative Link	Mobile, Wired, Wi-Fi. Primary and backup link configured as requirement, automatic load balancing.
Network Feature	NAT, Static/Dynamic Routing (RIP Protocol), Firewall
Network Protocol	TCP/UDP/NTP/HTTP/PING/SMS/ MODBUS/MQTT/PPPoe/PPTP/L2TP/ OPENVPN/IPSEC/GRE/SSH/SSL/TLS
VPN	PPTP, L2TP, OpenVPN, IPsec,GRE
Connection Monitoring	Ping Reboot, Periodic Reboot, ICMP
Docker Environment	Support
Management	WEB UI, SSH, SMS, RMS (including FOTA), USB Upgrade Function