

QT-R200 - M2M INDUSTRIAL ROUTER



- » MQTT
- » 2 x SIM, 4 x LAN, 1 x WiFi
- » Supply : 24V DC
- » Ingress Protection : IP30
- » Operating Temp.: -30°C ~ +75°C



CONNECTIVITY



INDUSTRIAL GRADE



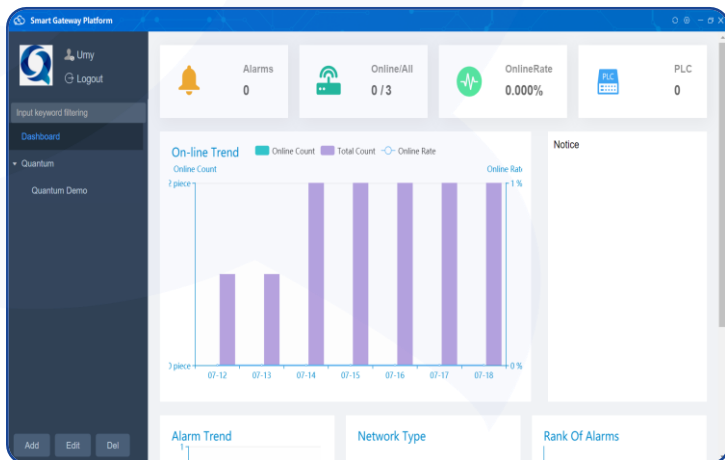
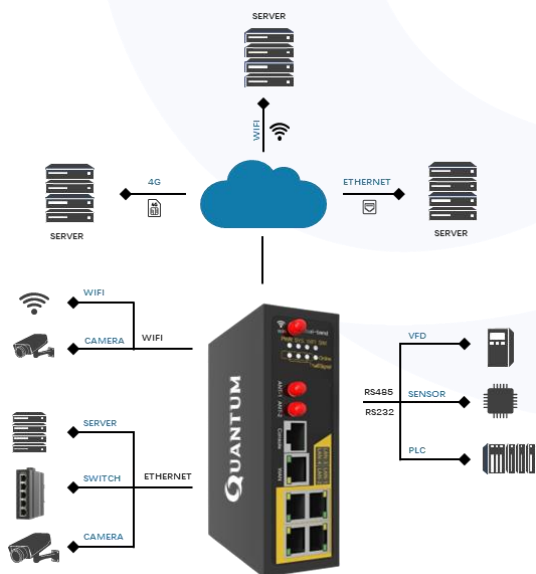
DIN RAIL MOUNT



HIGH & LOW TEMPERATURE RESISTANCE

Industrial Router QT-R200 is an intelligent cellular router designed for industrial applications requiring faultless connectivity. It provides a secure, reliable, real-time, remote connectivity for SCADA, distribution management systems, metering etc. Software-defined, multi-carrier networking, dual SIM models, 802.11n/802.11ac and global 2.5G/3G/HSPA+/LTE options make it easy to get connected. With DIN-rail mounting, wide operating temperature range, and IP30 metal housing, F-R200 is a convenient yet reliable solution for any industrial wireless applications.

USER FRIENDLY UTILITY TO ACCESS YOUR DEVICE



INDUSTRIAL GRADE DESIGN

- » High-performance industrial-grade wireless module
- » High-performance industrial-grade 32-bit communication processor Using metal shell, protection grade IP30
- » Wide power input range 5~36V

STABILITY & RELIABILITY

- » WDT Watchdog design
- » Complete anti-dropping mechanism to ensure that the data terminal is always online Built-in 15KV electromagnetic isolation protection for Ethernet interface
- » RS232/RS485/RS422 (Optional) interface power and data isolation SIM/UIM card interface built-in 15KV ESD protection
- » Lightning protection of antenna interface (Optional)

STANDARD & CONVENIENCE

- » Standard RS232/RS485/RS422 (Optional), Ethernet and WIFI Interface Provide standard wired WAN port (support standard PPPOE protocol) Can be directly connected to ADSL devices
- » Provide central management software to facilitate devices management (Optional) Multiple working mode options
- » Configuration and maintenance interface
- » Support local and remote WEB mode or CLI mode

HIGH PERFORMANCE

- » Multiple WAN connection methods, include Static IP/DHCP/PPPOE/DHCP-4G Support LTE/EVDO and wired WAN dual link backup (Optional)
- » Support VPN client: PPTP/L2TP/IPSEC (Only VPN version can support) Support VPN server: PPTP/L2TP/IPSEC (Only VPN version can support) Remote management SYSLOG/SNMP/TELNET/SSH/HTTPS
- » Support local upgrade and remote upgrade Import and export configuration files
- » NTP / Build-in RTC Support DDNS
- » Support VLAN, MAC address clone
- » WIFI Support 802.11b/g/n/ac. Support AP/AP Client/Bridge mode (Optional) Support Private APN/VPDN
- » Support APN/VPDN
- » Support DHCP server and DHCP client, DDNS, firewall, NAT, DMZ, QOS Support TCP/IP, UDP, FTP (Optional), HTTP and other network protocols Support SPI firewall VPN pass through, ACL, URL filter
- » Traffic statistics, real-time display of data transmission rate and, etc.



TECHNICAL PARAMETER	
Cellular Specification	
Standard and Band	Support LTE FDD 2600/2100/1800/900/800MHz, 700/1700/2100MHz (Optional) Support DC-HSPA+/HSPA+/HSDPA/HSUPA/UMTS 850/900/2100MHz, 800/850/1900/2100MHz (Optional) Support EDGE/GPRS/GSM 850/900/1800/1900MHz Support GPRS CLASS 10 Support EDGE CLASS 12
Bandwidth	LTE FDD : Downlink 100 Mbps, Uplink 50 Mbps DC-HSPA+ :Downlink 42 Mbps, Uplink 5.76 Mbps HSPA+ : Downlink 21 Mbps, Uplink 5.76 Mbps HSDPA : Downlink 7.2 Mbps, HSUPA : Uplink 5.76 Mbps UMTS : 384Kbps
Transmit Power	< 23dBm
Sensitivity	< -97dBm
WIFI Specification	
Frequency	Support IEEE802.11b/g/n, 2.4G, support AP mode, Station mode (Optional) Support IEEE802.11ac, 5.8G, support AP mode, Station mode (Optional)
Bandwidth	IEEE802.11b/g : Maximum speed rate up to 54 Mbps IEEE802.11n : Maximum speed rate up to 150 Mbps IEEE802.11ac : Maximum speed rate up to 390 Mbps
Security	Support WEP, WPA, WPA2 and other encryption methods, WPS (Optional)
Transmit Power	26dBm (11b), 21.5dBm (11g), 20dBm (11n), 16dBm (11ac)
Sensitivity	< -72dBm @ 54Mbps
Hardware System	
CPU	Industrial-grade 32-bit communication processor
Flash	32MB, Extensible to 64MB
DDR2	512MB
TF	8GB/32GB (Optional)
Interfaces	
WAN Interface	1 x 10/100/1000M Ethernet (RJ45) Auto MDI/MDIX, Built-in 1.5KV electromagnetic isolation protection
LAN Interface	4 x 10/100/1000M Ethernet (RJ45) Auto MDI/MDIX, Built-in 1.5KV electromagnetic isolation protection
Serial	1 x RS232(RS422/RS485), Built-in 1.5KV electromagnetic isolation protection Data bit : 5, 6, 7, 8 Stop bit : 1, 1.5 (Optional), 2 Calibration : null, even, odd, SPACE (Optional) and MARK (Optional) Baud rate : 2400~115200bits/s
Indicators	"PWR", "SYS", "WIFI", "SIM", "Online", "Signal Strength"



TECHNICAL PARAMETER

Interfaces

I/O Port	6-pin 3.5mm wiring terminal, 2 inputs, 1 output, 1 relay; Controlled by Modbus protocol Input high level : 5 to 30 VDC Input low level : 0 to 3 VDC Load current : 50mA @ 30VDC Relay load : 1A 250V AC/ 30V DC
Antenna	Cellular : 2 standard SMA female antenna interfaces, characteristic impedance 50 Ω WIFI : 1 standard SMA male antenna interfaces, characteristic impedance 50 Ω GPS : 1 calibrated SMA male antenna interface, characteristic impedance 50 Ω
SIM/UIM Slot	Standard drawer type user card interface Support 1.8V/3V SIM/UIM card, built-in 15KV ESD protection
Power Interface	2 PINS terminal power socket, built-in power reverse protection
Reset Button	Restore the router's parameter configuration to factory values

Power

Standard	DC 12V/1.5A
Range	DC 5 ~36V
Consumption	<700mA (12V)

Physical Properties

Casing	Metal Shell
Dimensions	134.8 x 115.7 x 45mm (excluding antennas and mountings)
Weight	520g (750 gm Gross)
Ingress Protection	IP30

GPS

GPS Module	Industrial GPS module (Optional Beidou module)
Receiver Type	50 channels GPSL1 (1575.42MHz) C/A code Support WAAS and EGNOS, MSAS, GAGAN
Maximum Update Rate	5Hz
Positioning Accuracy	Positioning : 2.5m CPE SBAS : 2.0m CPE
Sensitivity	Tracking: -160 dBm Re-capture: -160 dBm Cold start: -146 dBm

Environment

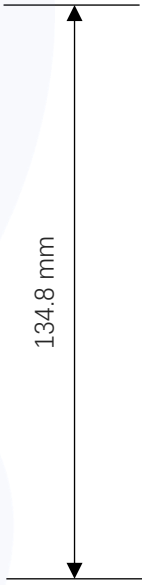
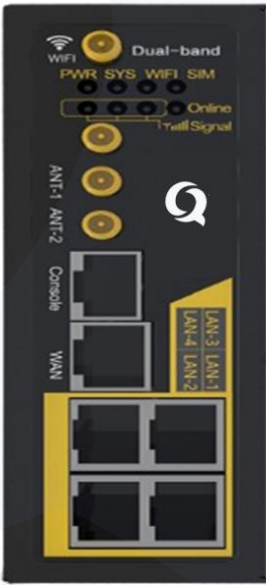
Operating Temperature	-35~+75°C (-31~+167°F)
Storage Temperature	-40~+85°C (-40~+185°F)
Relative Humidity	95% (non-condensing)



DIMENSIONS



114.5 mm



134.8 mm



45 mm

