

QT-R105 – M2M INDUSTRIAL ROUTER



- » 2 x SIM, 1 x LAN, 1 x LAN/WAN 1 x Wi-Fi
- » 5G Redcap & 4G Support
- » Dual SIM Auto Switch
- » Multiple IoT Interfaces
- » Aluminum housing, IP30



Connectivity



Industrial Grade



DIN Rail Mount



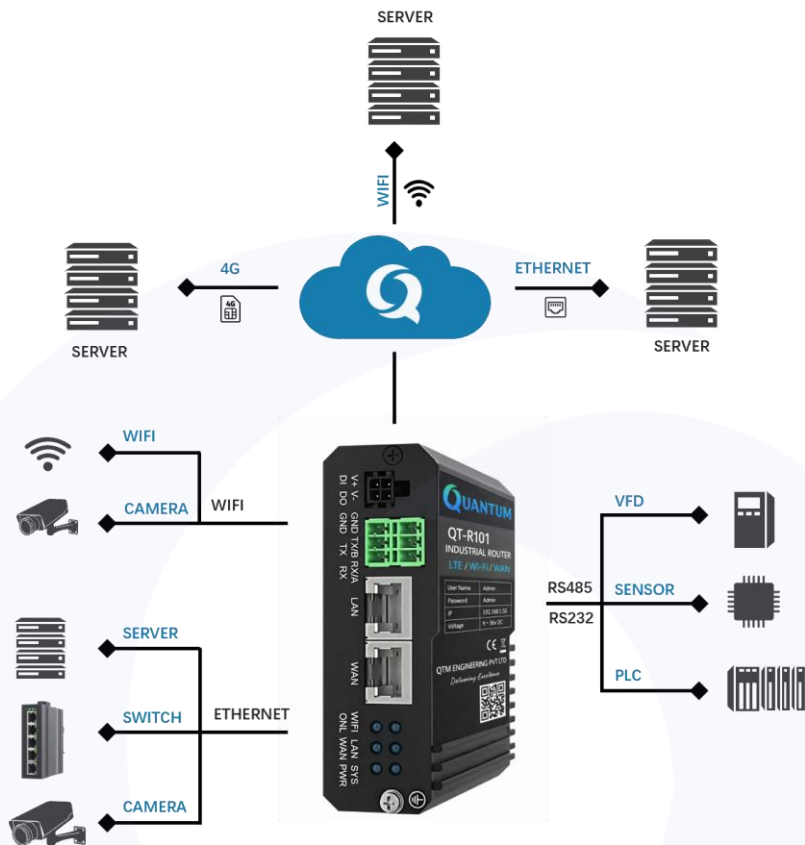
High & Low Temperature Resistance

Industrial Router QT-R105 is an industrial-grade router featuring a high-performance processor and wireless module, running on an embedded real-time operating system. It offers versatile connectivity with 1 x RS232, 1 x RS485, 1 x Ethernet LAN, 1 x Ethernet WAN, DI/DO, and Wi-Fi. This router enables seamless data transmission between serial, Ethernet, and Wi-Fi devices. It supports dual SIM cards with intelligent switching for backup, making it perfect for industrial IoT and M2M applications, ensuring reliable and continuous connectivity.

TECHNICAL SPECIFICATION

CPU	MTK7628A Industrial-grade Processor
DDR	128MB Industrial-grade RAM
Flash	32MB Industrial-grade Flash
Cellular	5G Redcap
WIFI	IEEE802.11b/g/n, 2.4GHz
Ethernet	1 x 100M WAN + 1 x 100M LAN
Serial	1 x RS232, 1 x RS485
I/O	1 x DO, 1 x DI
SIM	2 x 2FF SIM
VPN	Open VPN, GRE, IPSec, DMVPN, Zero Tier, PPTP, L2TP, Wire Guard
Casing	Aluminum Metal Casing, IP30
Dimension	91.4 x 92.4 x 31mm (Excludes Antennas and Mounting Accessories)
Installation	Wall-mount, DIN rail
Operating/Storage Temperature	-40°C to 75°C / -40°C to 85°C
Weight	Net : 200 gm Gross : 650 gm





- » EMC Level 3 and above, with strong anti-interference capability
- » Dual SIM card design with dropout prevention mechanisms, SIM card interface with 15KV ESD protection
- » Ethernet interface with 1.5KV electromagnetic isolation protection
- » RS232/RS485 interfaces with 1.5KV ESD protection
- » Supports multiple VPN protocols including IPsec, OpenVPN, and WireGuard
- » Built-in MQTT gateway, supporting data transparent transmission to HTTP/MQTT/Azure cloud
- » Supports remote management platform and PC client applications
- » Supports SPI firewall
- » Wi-Fi supports multiple encryption methods including WEP, WPA, WPA2 etc.
- » Supports multiple network protocols including TCP, UDP, IPv4, DNSS, Telnet
- » Supports mounting remote file systems via SSH protocol
- » Equipped with DDoS protection (SYN flood protection, SSH attack protection, Telnet attack protection)
- » Flexible access control for SSH, Web interface, CLI, and Telnet
- » Supports MODBUS TCP and Modbus RTU status/control
- » Supports MQTT subscription and MQTT publishing
- » Supports bridging and transparent transmission functions



CELLULAR SPECIFICATION

Standard and Band	5G NR SA : n1/2/3/5/7/8/12/13/14/18/20/25/26/28/30/38/40/41/48/66/70/71/ 77/78/79 LTE FDD : B1/2/3/4/5/7/8/12/13/14/17/18/19/20/25/26/28/30/66/70/71 LTE TDD : B34/38/39/40/41/42/43/48
Bandwidth	5G SASub-6 : 223Mbps DL, 123Mbps UL LTE : 195Mbps DL, 105Mbps UL

WiFi SPECIFICATION

Standard and Band	IEEE802.11b/g/n, 2.4G
Bandwidth	IEEE802.11b/g: 54Mbps (Maximum), IEEE802.11n: 144Mbps (Maximum)
Security	Support WEP, WPA, WPA2 and other encrypt methods
Transmit Power	15 ± 2dBm
Sensitivity	< -72dBm @ 54Mbps

INTERFACES

WAN Interface	1 x 10/100M RJ45 ethernet port, adaptive MDI/MDIX, built-in 15KV ESD
LAN Interface	1 x 10/100M RJ45 ethernet port, adaptive MDI/MDIX, built-in 15KV ESD (Support Passive POE)
Serial	1 x RS232, 1 x RS485 serial interface with built-in 15KV ESD
I/O	1xDI, 1xDO
LED Indicators	"PWR", "Online", "LAN", "WAN", "WIFI", "SYS"
Antenna Interface	Cellular: 2 x antennas WIFI: 1 x antenna
SIM/UIM Slot	2 x Standard 2FF SIM card slot
Power Interface	Standard 4 pin terminal block interface, with built-in phase-reversal and over-voltage protection
Reset Button	Can reset router's configuration to default factory setting by this button

POWER CONSUMPTION

Standard	DC 12V/1.5A
Voltage Range	DC 9~36V
Operating Current	<1.2A (12V)



5G Redcap & 4G



Passive PoE



Full Aluminum
Casing



2.4G WIFI



RS232 & RS485



DI & DO



Dual SIM



USER FRIENDLY UTILITY TO ACCESS YOUR DEVICE

Smart Gateway Platform

Umy Logout

Input keyword filtering

Dashboard

Quantum

Quantum Demo

Alarms: 0

Online/All: 47 / 560

OnlineRate: 8.784%

PLC: 0

Gateway Name: Code: Search Add Del Move Gateway Upgrade

	State	Name	Gateway code	Models	Gateway IP	Signal	Connection Status	Actions
☐	●	PA24109	FI2220069144	R100	192.168.0.71	—		Operate Edit OpenVPN
☐	●	NL24056	FHA270866942	R100	192.168.0.61			Operate Edit OpenVPN
☐	●	PA25043a	FHA270866980	R100	192.168.20.70			Operate Edit OpenVPN
☐	●	CR24202a	FI2210069036	R100	192.168.15.161			Operate Edit OpenVPN
☐	●	PM25028a	FI2220069070	R100	192.168.16.100			Operate Edit OpenVPN
☐	●	IP24108a	FI2220069071	R100	192.168.0.152			Operate Edit OpenVPN
☐	●	PA24189a	FI2220069083	R100	192.168.20.210			Operate Edit OpenVPN
☐	●	CR24202b	FI2220069107	R100	192.168.15.162			Operate Edit OpenVPN
☐	●	NF22228a	FI2220069108	R100	172.31.6.220			Operate Edit OpenVPN
☐	●	CR23194	FI2220069125	R100	192.168.10.70			Operate Edit OpenVPN

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Alarm Trend Network Type Rank Of Alarms

Add Edit Del

OVERALL DIMENSIONS

