QiXiang Technology QX210 Industrial Cellular Router Owner's Manual

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Contents

INTRODUCTION

QX210 series industrial cellular router designed for Internet of Things (IoT) and Machine to Machine(M2M) applications, It provides high speed wireless network for device by wireless connection and with Ethernet, WiFi and 4G internet connection options with auto-failover to ensure the stable = connection of Wireless network.

QX210 platform equipped with high-performance industrial 32-bit Communications Processor, two Ethernet ports, dedicated serial port(RS232), Wi-Fi interface, embedded LEDE Linux Operating System. With the small, compact design, it is ideal for space-constrained applications such as ATM, POS, Vending Machine, Bus WiFi, Smart Parcel Locker, Fleet Tracking, etc.

Guang Zhou Fixing Corporation is a professional provider of M2M and IoT connectivity products and services. We has been focusing on providing Industrial Cellular Router, Cellular Serial Modem, Wireless Network Print Server, Serial Server (DTU), Android Industrial Motherboard, Embedded Router Board, M2M Cloud Platform, etc.

KEY FEATURES

Industrial-grade Design

- High-performance industrial wireless module
- High-performance industrial 32-bit processor
- Support low-consumption mode, including sleep mode, scheduled online/offline mode
- Metal housing, excellent heat dissipation
- Desktop or Wall mount, Protection degree IP41(Max IP51)
- Wide voltage:7.5V~32V DC(Max36V)

Stable and ReliablE

- Hardware and Software WDT and multi-link detection make it self-recovery from unexpected failure and guarantee reliable communication
- Port ESD protection, avoid Static Electricity Shock
- LED indicators display the status of Wireless network signal

Network Characteristics

- Port flux detection

- Link real-time monitoring

- Support APN and VPDN private network access

- Multiple VPN protocols (client modes): PPTP, L2TP, IPSec, OPENVPN, N2N, GRE

- Serial port offer Data Transfer Unit(DUT) function and support Modbus protocol

- Support multi online trigger ways, including ring, or data trigger

- Support QOS, UPnP protocol

- Port forwarding

- UDP broadcast relay

Function Characteristics

- 4G LTE, compatible with 3G/2G WCDMA GPRS, EDGE

- Failover, Backup and Load balance between WAN and Cellular network

- Various interface: 1xWAN+1xLAN or 2xLAN, RS232 serial port

- Wi-Fi radios, support IEEE802.11b/g/n

- Always keep online, reboot automatically if disconnected to ensure continual connection Support SNMP management protocol

- Support DHCP, DDNS, Firewall, NAT, andDMZhost

- Support ICMP, TCP, UDP, Telnet, FTP, HTTP, HTTPS protocol

- Support standard industrial grade SIM/UIMcard

- Support scheduled reboot

Cloud-Based Platform Management

- Remote parameter configuration

- Remote parameter backup

- Remote reboot and log query

- Remote device upgrades

- On-line monitoring

Extensions

- Support GPS positioning (Optional)

- Support WAN port, wired and wireless mutual backup (Optional)

- WiFi advertising (Optional)

APPLICATION

Retail **ATM:** POS(Point-of-Sale), Vending Machine, Lottery Machine, Branch network, Digital Signage
Transportation: Wi-Fi on Board(Bus, Yacht, Train), Vehicle video surveillance, Fleet tracking, Bus Advertising
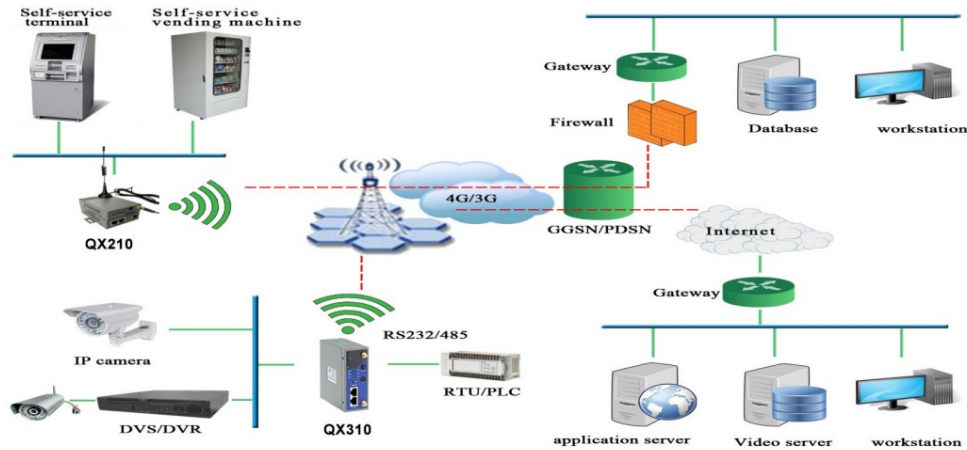**Energy:** Digital Oil Field, Coal Mine, Solar, Smart Grid
Smart City: Charging station, Water conservancy, Traffic, Street lighting, Security monitoring equipment, Guest and employee Wi-Fi, Environment
monitoring, Video Surveillance, Smart Parcel Locker, Building and process automation controllers, IP cameras and access controllers\
Industry &: Telco infrastructure controllers, Automation controllers, Remote PLC, Remote AMR, Remote

Monitoring and control, Remote data

Enterprise: loggers, flow meters and sensing equipment (Telemetry, Tanking, Fire alarm, Meteorological monitoring), remote offices.

SPECIFICATION

Cellular	
Theoretical Bandwidth	FDD LTE:50/150Mbps|HSPA:5.76/21Mbps|EVDO:1.8/3.1Mbps
Transmit Power	<24dBm
Receiving Sensitivity	<-109dBm
Wi-Fi	
Standard	IEEE802.11b/g/n, Max up to 150Mbps
Frequency band	2.4Ghz
Security encryption	WEP, WPA, WPA2, Optional WPS function
Transmit Power	16-17dBm(11g), 18-20dBm(11b), 15dBm(11n)
Receiving Sensitivity	<-72dBm@54Mpbs
Interface	
LAN	1×Ethernet interface(RJ45), Auto MDI/MDIX,built-in ESD
WAN	1×Ethernet interface(RJ45), Auto MDI/MDIX,built-in ESD, WAN can be converted to LAN
Serial Port	1×RS232 port
LED Indicators	With "PWR"," LAN", "WLAN", "NET" four indicator lamps
Antenna Interface	2 standard SMA antenna interface (WIFI/GPS and

	3G/4G 50ΩSMA
SIM/UIM slot	SIM/UIM card mounting plate to protect falling.1.8V/3V automatic detection
Power Input	7.5V-32V(standard DC12V/1A), built-in powertransient overvoltage protection
Reset Button	Reset configuration parameter to default values
Power Supply	
Standard power	DC 12V/1A
Physic	
CPU	560MHz
Flash/RAM	16MB/128MB
Shell	metal plate shell
Dimension	95.5×70.5×25mm
Weigh	About 210g
Environmental	
OperatingTemperature	-30 to 70°C
Storage Temperature	-40 to 85°C
Relative Humidity	< 95% no coagulation
Approval	CCC,CE,FCC

QX210 MODEL ORDERING INFORMATION (Model: QX210)

Part Number	Bands	Region	Wi-Fi	GPS
QX210-N	FDD-LTE:B2/B4/B5/B12/B13/B17/B25/B26	North		
QX210-NW	TD-LTE:B41	America,Bolivia	√	
QX210-NG	WCDMA:B2/B4/B5			√
QX210-NWG	EVDO:BCO/1 (800/1900MHz) ; GSM:850/1900		√	√
QX210-E	TDD-LTE:B38/B40/B41	Europe, Middle		
QX210-EW	FDD-LTE:B1/B3/B7/B8/B20/B28A	East, Africa, Korea,	√	
QX210-EG	WCDMA:B1/B8	Thailand, Southea		√
QX210-EWG	GSM:B3/B8 (1800/900MHz)	st Asia	√	√
QX210-A	TDD-LTE:B40	Australia, New		
QX210-AW	FDD-LTE:B1/B3/B5/B7/B8/B28	Zealand, Taiwan,Br	√	
QX210-AG	WCDMA:B1/B5/B8	azil		√
QX210-AWG	GSM:B2/B3/B5/B8 (1900/1800/850/900MHz)		√	√
QX210-A	FDD-LTE:B2/B4/B5/B7/B8/B28	Latin America		
QX210-AW	TD-LTE:B40		√	
QX210-AG	WCDMA:B2/B5/B8			√
QX210-AWG	GSM:B2/B3/B5/B8 (1900/1800/850/900MHz)		√	√

Note:1. If request other frequency band model, please consult sale person2. Please specify when order if request other optional features

Qixiang Technology, Contact Us for purchasing

Documents / Resources

QiXiang Technology QX210 Industrial Cellular Router [pdf] Owner's Manual
QX210, QX210 Industrial Cellular Router, Industrial Cellular Router, Cellular Router, Router

References

- Qixiang **Home Page - Industrial Design 4G LTE 5G Router Manufacturer | QiXiang Technology**
- **User Manual**