QX210

Industrial Cellular Router
2 Eth + 1 SIM + 1 RS232/485

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/RS485), 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.

GuangZhou QiXiang 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: 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, SMS, or data trigger

➢ Support QOS, UPnP protocol

➢ Port forwarding

➢ UDP broadcast relay

Function Characteristics

➢ Full bands 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, RS232/485 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, and DMZ host

➢ Support ICMP, TCP, UDP, Telnet, SSH, FTP, HTTP, HTTPS protocol

➢ Support standard industrial grade SIM/UIM card

➢ Support scheduled reboot
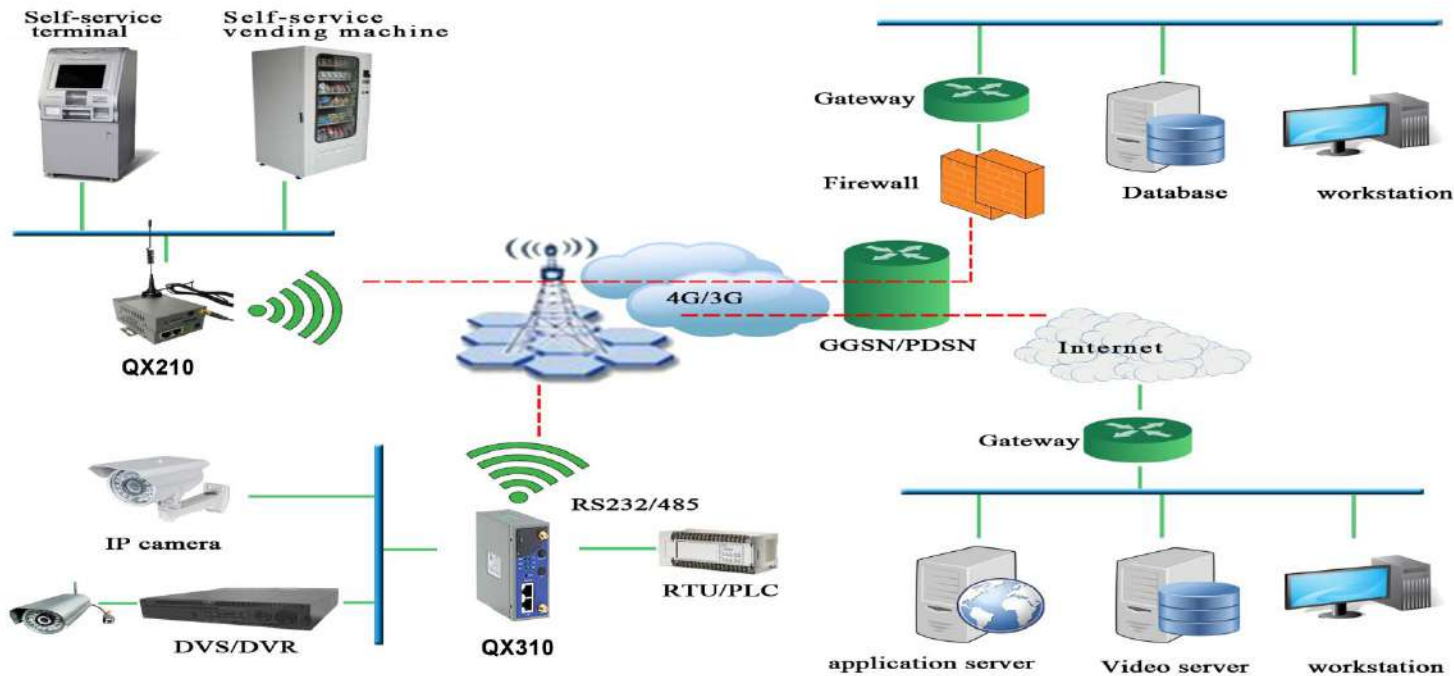
Cloud-Based Platform Management

➢ 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 & Enterprise	Telco infrastructure controllers, Automation controllers, Remote PLC, Remote AMR, Remote Monitoring and control, Remote data 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
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(optional RS485)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 power transient overvoltage protection
Reset Button	Reset configuration parameter to default values
Power Supply	
Standard power	DC 12V/1A
Physic	
CPU	560MHz
Flash/RAM	128Mb/1024Mb
Shell	metal plate shell
Dimension	95.5×70.5×25mm
Weigh	About 210g
Environmental	
Operating Temperature	-30 to 70°C
Storage Temperature	-40 to 85°C
Relative Humidity	< 95% no coagulation
Approval	CCC,CE

QX210 MODEL ORDERING INFORMATION (Model: QX210)

Part Number	Bands	Region	Wi-Fi	GPS
QX210-N	FDD-LTE:B2/4/5/12/13/17/25/26 (1900/1700/850/700/1900MHz) TD-LTE:B41 (2500MHz) WCDMA:B2/4/5 (1900/1700/850MHz) EVDO:BCO/1 (800/1900MHz) ; GSM:850/1900	North America		
QX210-NW			√	
QX210-NG				√
QX210-NWG			√	√
QX210-E	TDD-LTE:B38/B40/B41 (2600/2300/2500MHz) FDD-LTE:B1/B3/B5/B7/B8/B20 (2100/1800/850/2600/900/800MHz) WCDMA:B1/B5/B8 (2100/850/900MHz) GSM:B3/B8 (1800/900MHz)	Europe,Middle East, Africa,Korea, Thailand,Southeast Asia		
QX210-EW			√	
QX210-EG				√
QX210-EWG			√	√
QX210-A	TDD-LTE:B40 (2300MHz) FDD-LTE:B1/B2/B3/B4/B5/B7/B8/B28 (2100/1900/1800/1700/850/2600/900/700MHz) WCDMA:B1/B2/B5/B8 (2100/1900/850/900MHz) GSM:B2/B3/B5/B8 (1900/1800/850/900MHz)	Australia,New Zealand,Latin America,Taiwan		
QX210-AW			√	
QX210-AG				√
QX210-AWG			√	√
QX210-C	FDD-LTE:B1/B3/B5 (2100/1800/850MHz) TD-LTE:B38/B39/B40/B41 (2600/1900/2300/2500MHz) WCDMA:B1 (2100MHz) TD-SCDMA:B34/B39 (2000/1900MHz); CDMA/EVDO:BC0 (800MHz); GSM:900/1800	China Mainland		
QX210-CW			√	
QX210-CG				√
QX210-CWG			√	√

Note:

1. If request other frequency band model, please consult sale person

2. Please specify when order if request other optional features