QX510

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

INTRODUCTION

QX510 series industrial cellular router designed for Internet of Things (IoT) and Machine to Machine(M2M) applications, support wide standard frequency bands such as FDD/TDD LTE, WCDMA, HSUPA, HSPA+, EV-DO, GSM, etc.

QX510 platform equipped with high-performance industrial 32-bit Communications Processor, 5 Ethernet ports, dedicated serial port(RS232/RS485), Wi-Fi interface, embedded LEDE Linux Operating System. It is ideal to provides safe, high-speed, stable connection on 3G/4G network for ATM, POS, Vending Machine, Bus WiFi, Video Surveillance, Industrial Automation, Building Automation, Telco infrastructure, etc.

GuangZhou QiXiang Corporation is a professional provider of machine-to-machine (M2M) and Internet of Things (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.

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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
- 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 RTU to Modbus TCP 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+4xLAN or 5xLAN, 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
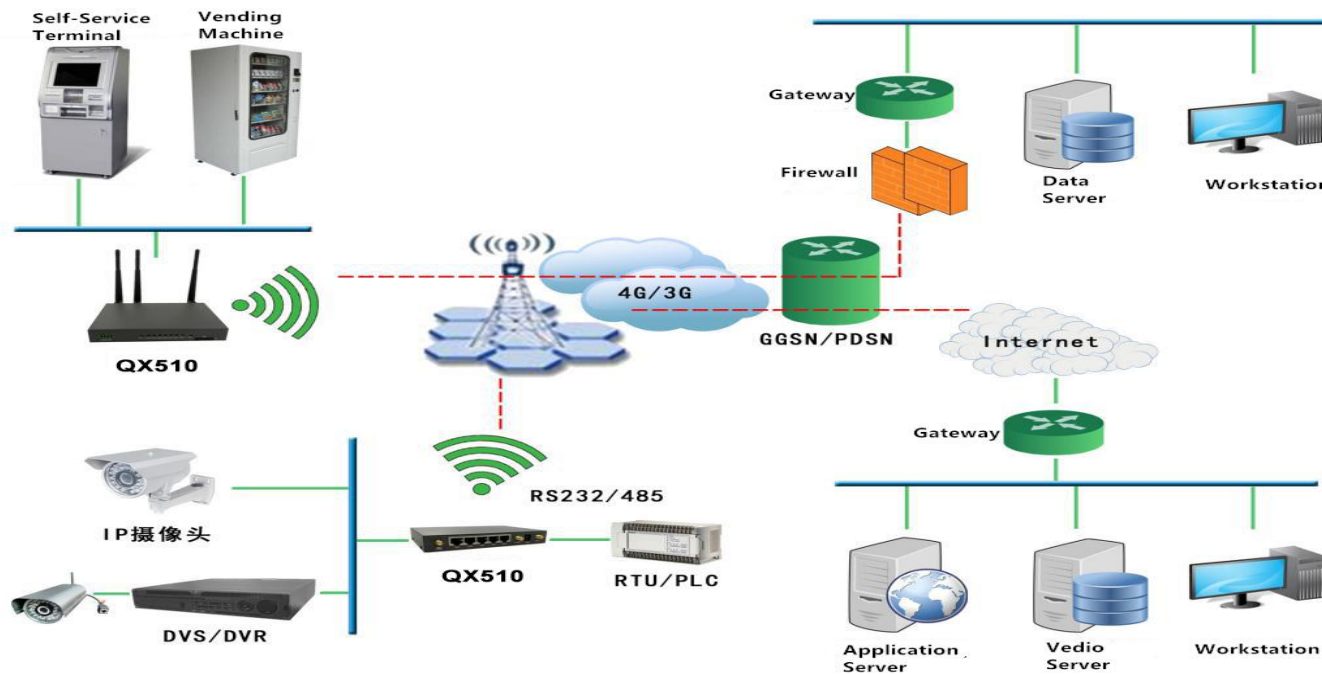
Cloud-Based Platform Management

- 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)
- Storage extension, 2GB to 32GB (Optional)

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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

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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	4×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",4×" LAN", "WAN", "WiFi", "SIM" 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 detection1.8V/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/512Mb
Shell	metal plate shell
Dimension	152×104×25mm
Weigh	About 410g
Environmental	
Operating Temperature	-30 to 70°C
Storage Temperature	-40 to 85°C
Relative Humidity	< 95% no coagulation
Approval	CCC,CE

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ORDERING INFORMATION (Model: QX510)

Part Number	Bands	Region	Wi-Fi	GPS
QX510-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		
QX510-NW			√	
QX510-NG				√
QX510-NWG			√	√
QX510-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		
QX510-EW			√	
QX510-EG				√
QX510-EWG			√	√
QX510-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		
QX510-AW			√	
QX510-AG				√
QX510-AWG			√	√
QX510-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		
QX510-CW			√	
QX510-CG				√
QX510-CWG			√	√

Note:

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

2. Please specify when order if request other optional features

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