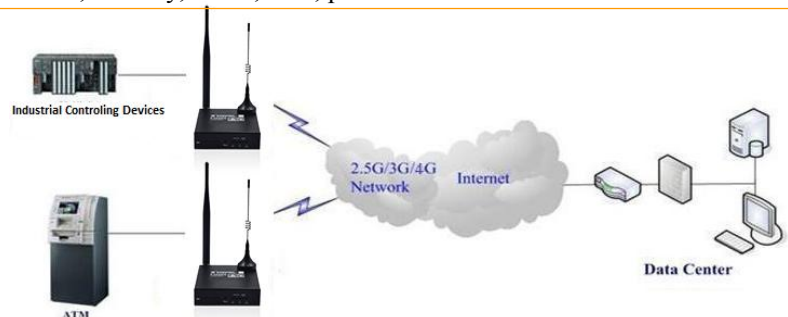| Document Version	Security Classification
V2.0.1	

F3X26Q Industrial Router Specification

Introduction
F3X26Q Industrial Router is an IoT wireless communication router. It is using public cellular network GPRS/CDMA/WCDMA/EVDO/LTE to provide long distance, wireless and large data transmission function for users.

The product uses the high-performance industrial-grade CPU and wireless module, with the embedded real-time operating system as the software support platform. It provides a RS232 (or RS485), 1 ethernet LAN, 1 ethernet WAN and a WIFI, can be connected to the serial device, ethernet devices and WIFI devices at the same time, achieve data pass-through function.

The product has been widely used in the M2M industry of the IoT industrial chain, such as smart grid, intelligent transportation, smart home, finance, mobile POS terminals, supply chain automation, industrial automation, intelligent building, fire protection, public safety, environmental protection, meteorology, digital medical, telemetry, agriculture, forestry, water, coal, petrochemical and other related fields.

HIGHLIGHTS--

INDUSTRIAL-GRADE DESIGN

- High-performance industrial-grade CPU
- High-performance industrial-grade wireless communication module
- Metal casing, IP30 protection level, suitable for most industrial control applications.

STABLE & RELIABLE

- Multiple protection mechanism to ensure system stability, always keeping online
- Ethernet interface with built-in 15KV ESD
- RS232/RS485 with built-in 15KV ESD
- SIM/UIM card slot with built-in 15KV ESD
- Power interface with built-in phase-reversal and over-voltage protection

- Antenna interface with lightning protection (optional)

STANDARD INTERFACE & EASY-TO-USE

- Standard RS232/RS485, ethernet and WIFI interface, can be connected to the serial device, ethernet devices and WIFI devices
- Standard wired WAN interface (support standard PPPOE protocol), Can be connected to ADSL devices directly
- Intelligent data terminal, automatically enter transmission status after power-on
- Powerful central management software for easy device management, access by user name and password.
- Easy to use and flexible, has multiple working modes, router and bridge mode operation

◆ Convenient system configuration and maintenance interface (including local and remote WEB or CLI access)

POWERFUL FUNCTIONS

◆ Support dual-link intelligent switching function between primary card and backup card

◆ Support various WAN connection type, including static IP, DHCP, PPPOE, 2.5G/3G/4G

◆ Support LTE and wired WAN dual- link intelligent switching backup function (optional)

◆ Support VPN client (PPTP, L2TP, IPSEC, OPENVPN, GRE) (only for VPN version),

◆ Support remote management, SYSLOG, SNMP, TELNET, SSHD, HTTPS, TR-069, etc.

◆ Support upgrade software from the local and remote maintenance.

◆ Support NTP, SSTP, Static and Dynamic IP address and routing

◆ Support various DDNS, Server DNS

◆ Support MAC address clone, PPPoE server

◆ WiFi Client statistics on traffic and time connection

◆ Support 802.11 b / g / n WIFI network, support WIFI AP with client traffic layer 2 izolation, AP Client, Bridge and various working mode (optional)

◆ WIFI support variety types of encryption such as WEP, WPA, WPA2 and WPA2 Enterprise, Radius MD5, TLS, TTLS, PEAP

◆ Support selection of frequency channel manually and automatically from user defined list.

◆ Support various online/offline trigger modes, including SMS, phone ringing, serial data, network data to trigger.

◆ Support APN/VPDN, MAC address filtering.

◆ Support multi-way DHCP server and DHCP client, DHCP bound with MAC address, DDNS, firewall, NAT, DMZ, QoS, traffic statistics, real-time transfer rate monitoring

◆ Support various network protocols including TCP/IP, UDP, TCP, IPv4, IPv6, FTP (optional), HTTP.

◆ Support SPI firewall, VPN traversal, access control, URL filtering, Port Forwarding, etc.

SPECIFICATIONS---

Cellular Specification

Item	Content
F3X26Q-FL FDD-LTE WIFI Industrial Router	
Standard and Band	Support FDD-LTE B1/B2/B3/B5/B7/B8/B20
	Support TDD-LTE B38/B39/B40/B41
	Support TD-SCDMA: B34, B39
	Support HSPA+/UMTS B1/B2/B5/B8
	Support EV-DO: BC0
	CDMA 1x: BC0
	Support EDGE/GPRS/GSM 850/900/1800/1900MHz
Bandwidth	FDD-LTE: Downstream rate 150Mbps, uplink rate 50Mbps
	TD-LTE: Downstream rate 130Mbps, uplink rate 35Mbps
	TD-HSPA+: Downstream rate 4.2Mbps, uplink rate 2.2Mbps
	DC-HSPA+: Downstream rate 42Mpbs, uplink rate 5.76 Mbps
	HSPA+: Downstream rate 21Mpbs, uplink rate 5.76 Mbps
	UMTS: 384Kbps
Transmit Power	<23dBm
Sensitivity	<-97dBm

F3X26Q-L LTE WIFI Industrial Router	
Standard and Band	Support all band: FDD-LTE, TD-LTE, EVDO, WCDMA, TD-SCDMA, CDMA1X, GPRS/EDGE
Bandwidth	FDD-LTE: Downstream rate 150Mbps, uplink rate 50Mbps
	TD-LTE: Downstream rate 130Mbps, uplink rate 35Mbps
	DC-HSPA+: Downstream rate 42Mpbs, uplink rate 5.76 Mbps
	TD-HSPA+: Downstream rate 4.2Mbps, uplink rate 2.2Mbps
	EVDO Rev. A: Downstream rate 3.1Mbps, uplink rate 1.8Mbps
Transmit Power	<23dBm
Sensitivity	<-97dBm

WIFI Specification

Item	Content
Standard and Band	IEEE802.11b/g/n, 2,4 GHz
Bandwidth	IEEE802.11b/g: 54Mbps (Maximum)
	IEEE802.11n: 144Mbps (Maximum)
Multiple SSID	Min 4, SSID broadcast enable/disable
Security	Support WEP, WPA, WPA2 encrypt methods, optional WPS function
Transmit Power	15±2dBm with adjust in thresholds dBm
Sensitivity	<-72dBm@54Mbps

Hardware System

Item	Content
CPU	Industrial-grade CPU, 650M
FLASH	16MB
DDR2	128MB
WEB interface	Configuration, backup and restore, firmware update
Event logs	Client registration, interference level, warnings, defects and others

Interface

Item	Content
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
Standards	IEEE 802.3, IEEE 802.3u, IEEE 802.3x, IEEE 802.1x
Serial	1 x RS232/485 serial interface with built-in 15KV ESD
	Data bits:5, 6, 7, 8 bits
	Stop bits:1, 1.5 (optional), 2 bits
	Error detection: none, even parity, odd parity, SPACE (optional) and MARK (optional)
	Serial Port Rate: 2400~115200bits/s
LED Indicators	"PWR", "Online", "LAN", "WAN/LAN", "WIFI"
Antenna Interface	Cellular: Standard SMA female antenna interface, characteristic impedance: 50 Ω, gain 3,5 dBi
	WIFI: Standard SMA male antenna interface, characteristic impedance: 50 Ω, gain 1,5 dBi
SIM/UIM Slot	Standard SIM card slot, support 1.8V/3V SIM/UIM card, built-in 15KV ESD, support dual-SIM card option

Power Interface	Standard 3.5mm 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

Note: There may be differences between models of accessories and interfaces, actual products shall prevail.

Power

Item	Content
Input Voltage	PoE in: (Passive PoE and 802.3af/at) DC jack: 10 - 57 V MicroUSB: 5 V

Power Consumption

Work Mode	Consumption
Standby	95~135mA@12VDC
Communicating	165~220mA@12VDC

Physical Properties

Item	Content
Casing	Metal casing, IP30 protection level, suitable for most industrial control applications, wall mounting
Dimensions	93x89x24mm (excluding antennas and mountings)
Weight	250g

Others

Item	Content
Operating Temperature	-40~+75℃
Storage Temperature	-40~+85℃
Relative Humidity	95% (non-condensing)

Ordering Information

Model	Description	WAN	LAN	Cellular Antenna	WIFI Antenna	SIM/UIM
F3X26Q-FL	FDD/TDD-LTE WIFI Industrial Router	1	1	1	1	1

F3X26Q-L	LTE WIFI Industrial Router	1	1	1	1	1
F3X26Q-FL-SIM2	FDD/TDD-LTE WIFI Industrial Router	1	1	1	1	2
F3X26Q-L-SIM2	LTE WIFI Industrial Router	1	1	1	1	2

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