4G Industrial Router

F3X36

VPN

Remote Management

3G

4G

RS232

RS485

Cloud Platform

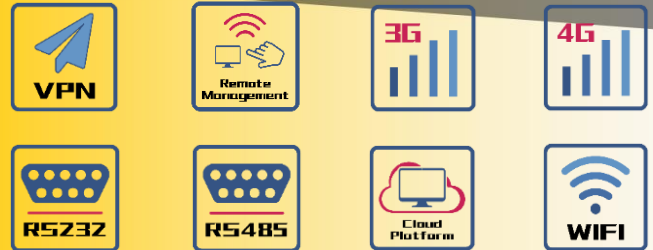WIFI

Introduction

F3X36 Industrial Router is a kind of cellular terminal device that provides large data transfer function by public GPRS/CDMA/WCDMA/EVDO/LTE network. It adopts high-powered industrial 32-bits CPU and embedded real time operating system. It supports RS232 (or RS485/RS422), Ethernet and WIFI port that can conveniently and transparently connect one device to a cellular network, allowing you to connect to your existing serial, Ethernet and WIFI devices with only basic configuration.

Industrial-grade Design

▶ High-powered industrial cellular module
▶ High-powered industrial 32bits CPU
▶ Support low-consumption mode, including sleep mode, scheduled online/offline mode, scheduled power-on/power-off mode(optional)
▶ Housing: iron, providing IP30 protection
▶ Power range: DC 5~36V

Stability & Reliability

▶ Support hardware and software WDT
▶ Support auto recovery mechanism, including online detect, auto redial when offline to make Router always online
▶ Ethernet port: 1.5KV magnetic isolation protection
▶ RS232/RS485/RS422 port: 15KV ESD protection
▶ SIM/UIM port: 15KV ESD protection

Standard & Convenience

▶ Support standard RS232(or RS485/RS422), Ethernet and WIFI port that can connect to serial, Ethernet and WIFI devices directly
▶ Support standard WAN port and PPPOE protocol that can connect to ADSL directly
▶ Support intellectual mode, enter into communication state automatically when powered
▶ Provide management software for remote management
▶ Support several work modes
▶ Convenient configuration and maintenance interface (WEB or CLI)

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▶ Support multiple WAN access methods, including static IP, DHCP, L2TP, PPTP,PPPOE,2.5G/3G/4G

▶ Support double link backup between LTE and WAN (PPPOE, ADSL) (optional)

▶ Support VPN client (PPTP, L2TP, IPSEC) (only for VPN version)

▶ Support VPN server (PPTP, L2TP, IPSEC) (only for VPN version)

▶ Support local and remote firmware upgrade, import and export configure file

▶ Support NTP, RTC embedded

▶ Support multiple DDNS provider service

▶ Support VLANs, MAC Address clone, PPPoE Server

▶ WIFI support 802.11b/g/n. support AP, client, Adhoc, Repeater, Repeater Bridge mode

▶ WIFI support WEP,WPA,WPA2 encryption, Support MAC address filter

▶ Support multiple online trigger ways, including SMS, ring and data. Support link disconnection when timeout

▶ Support APN/VPDN

▶ Support DHCP server and client, firewall, NAT, DMZ host , URL block, QoS, traffic statistics, real time link speed statistics etc

▶ Full protocol support , such as TCP/IP, UDP, ICMP, SMTP(optional), HTTP, POP3(optional), OICQ(optional), TELNET, FTP(optional), SNMP, SSHD, etc.

Product Specification

Cellular Specification	
Items	**Contents**
F3836 FDD-LTE WIFI Industrial Router	
Standard and Band	FDD-LTE 2600/2100/1800/900/800MHz, 700/1700/2100MHz(optional)
	DC-HSPA+/HSPA+/HSDPA/HSUPA/UMTS 850/900/2100MHz, 800/850/1900/2100MHz(optional)
	EDGE/GPRS/GSM 850/900/1800/1900MHz
	GPRS CLASS 10
	GPRS CLASS 12
Bandwidth	FDD-LTE: Download speed 100Mbps, Upload speed 50Mbps
	DC-HSPA+: Download speed 42Mbps, Upload speed 5.76Mbps
	HSPA+: Download speed 21Mbps, Upload speed 5.76Mbps
	HSDPA: Download speed 7.2Mbps, HSUPA: Upload speed 5.76Mbps
	UMTS: 384Kbps
TX Power	<23dBm
RX Sensitivity	<-97dBm
Standard and Band	Support: FDD-LTE, TD-LTE, EVDO, WCDMA, TD-SCDMA, CDMA1X, GPRS/EDGE

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Interfaces

Items	Contents
WAN	1 10/100 Mbps WAN port (RJ45), auto MDI/MDIX, 1.5KV magnetic isolation protection
LAN	4 10/100 Mbps Ethernet ports (RJ45), auto MDI/MDIX, 1.5KV magnetic isolation protection
Serial	1 RS232(or RS485/RS422) port, 15KV ESD protection Data bits: 5, 6, 7, 8 Stop bits: 1, 1.5(optional), 2 Parity: none, even, odd, space(optional), mark(optional) Baud rate: 2400~115200 bps
Indicator	"Power", "System", "Online", "SIM", " Local Network ", "WAN", "WIFI", "Signal Strength"
Antenna	Cellular: 2 Standard SMA female interface, 50 ohm, lighting protection(optional) WIFI: 1 Standard SMA male interface, 50 ohm, lighting protection(optional)
SIM/UIM	Standard 3V/1.8V user card interface, 15KV ESD protection
Power	Standard 3-PIN power jack, reverse-voltage and over-voltage protection
Reset	Restore the Router to its original factory default settings

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

Power

Items	Contents
Standard Power	DC 12V/1.5A
Power range	DC 5~36V

Power Consumption

Work Mode	Consumption
Standby	293~326mA@12VDC
Communication	310~554mA@12VDC
Schedule Shutdown	2.57~4.2mA@12DVC

Physical Properties

Items	Contents
Housing	Iron, providing IP30 protection
Dimensions	207x135x28 mm
Weight	790g

Four-Faith

Tel: 400-8838-199
Web: www.fourfaith.com

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Others	
Items	Contents
Operating Temperature	-35~+75ºC (-31~+167℉)
Storage Temperature	-40~+85ºC (-40~+185℉)
Operating Humidity	95% (unfreezing)

Topology
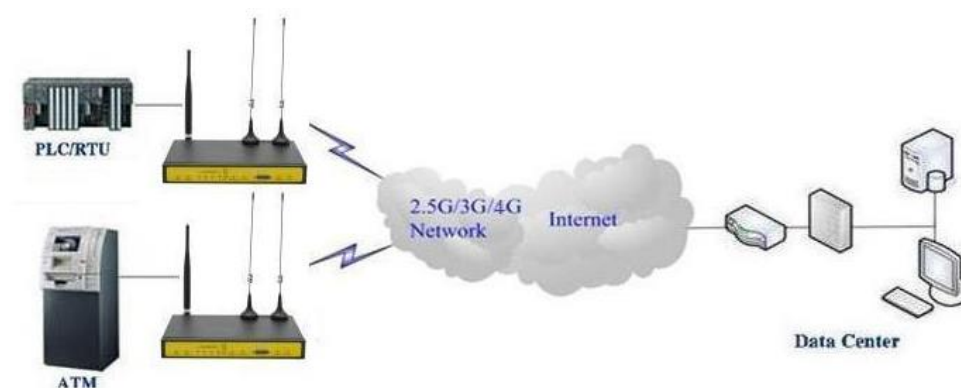
Dimension
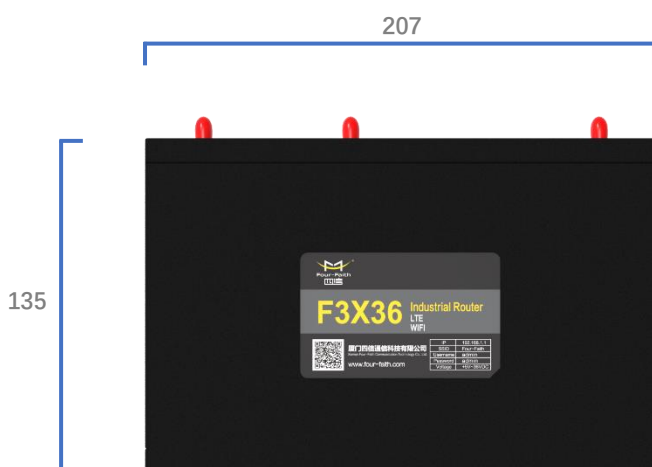
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Order Information

Models	Description	WAN	LAN	Cellular Antenna	WIFI Antenna	SIM/UIM
F3836	FDD-LTE WIFI Industrial Router	1	4	2	1	1