VPN | Remote Management | 3G | 4G

RS232 | RS485 | SMS Backup | Cloud Platform

Introduction

F3X27 V2 Industrial Router is an IoT wireless communication router. It is using the public cellular network GPRS/CDMA/WCDMA/EVDO/LTE to provide long distance, wireless and large data transmission function for users. It 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.

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.
▶ Wide range power input (DC 5~36V)

Stability & Reliability

▶ WDT protection, ensure system stability
▶ Multiple protection mechanism to ensure system stability, always keeping online
▶ RS232/RS485/RS422 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)
▶ Ethernet interface with built-in 15KV ESD

Standard & Convenience

▶ Standard RS232 or RS422/RS485, ethernet and WIFI interface
▶ Intelligent data terminal, automatically enter transmission status after power-on
▶ Powerful central management software for easy device management (Optional)
▶ Easy to use and flexible, has multiple working modes
▶ Support local and remote WEB or CLI access

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High Performance

▶ Support multiple WAN access methods

▶ Support static IP, DHCP, L2TP, PPTP, PPPOE,2.5G/3G/4G

▶ Support multiple DDNS provider service

▶ Support upgrade software from the local and remote maintenance

▶ Support NTP, RTC embedded

▶ Support APN/VPDN

▶ Schedule Online and Offline

▶ Support multiple online trigger ways, including SMS, ring, and data.

▶ Support DHCP server and client, firewall, NAT, DMZ host, URL block, QOS, etc.

▶ Support TCP/IP, UDP, FTP (Optional), and HTTP

▶ Support APN/VPDN

Product Specification

Cellular Specification		
Model	**F3827 V2**	**F3C27 V2**
Items	**Contents**	
Standard and Band	LTE FDD, LTE TDD, EVDO, WCDMA, TD-SCDMA, CDMA1X, GPRS/EDGE	FDD-LTE: B1, B2, B3, B4, B5, B7, B8, B20, B28, B66 TDD-LTE: B38, B40, B41 GSM/GPRS: 850/900/1800/1900 MHz
Bandwidth	LTE FDD：DL 100Mbps，UL 50Mbps LTETDD：DL 61Mbps，UL 18Mbps DC-HSPA+：DL 42Mbps，UL 5.76Mbps TD-HSPA+：DL 4.2Mbps，UL 2.2Mbps EVDO Rev.A：DL 3.1Mbps，UL 1.8Mbps	FDD-LTE：Cat1, DL 10Mbps, UL 5Mbps TDD-LTE：Cat1, DL 8.96Mbps, UL 2Mbps GPRS：DL 85.6Kbps, UL 85.6Kbps
Transmit Power	< 23dBm	
Sensitivity	< -97dBm	
Hardware System		
Model	**F3827 V2**	**F3C27 V2**
Items	**Contents**	
CPU	Industrial-grade 32 bits CPU	
Flash	16MB (Optional for 64MB)	
DDR2	128MB	

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Interfaces		
Model	F3827 V2	F3C27 V2
Items	Contents	
Ethernet	1 x 10/100M RJ45 ethernet port, adaptive MDI/MDIX, built-in 15KV ESD	
Serial	1 x RS232(RS422/RS485), 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 speed rate: 2400~115200bits/	
LED Indicators	"PWR", "SYS", "LAN", "WAN", "NET", Signal Indicator	
Antenna Interface	Cellular: 1 or 2 Standard SMA female antenna interfaces, characteristic impedance: 50 Ω	
SIM/UIM Slot	Standard SIM card slot, support 1.8V/3V SIM/UIM card, built-in 15KV ESD	
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: Different types of accessories and interfaces may be different, specific in kind prevail.

Power		
Model	F3827 V2	F3C27 V2
Items	Contents	
Standard	DC 12V/1.5A	
Range	DC 5~36V	

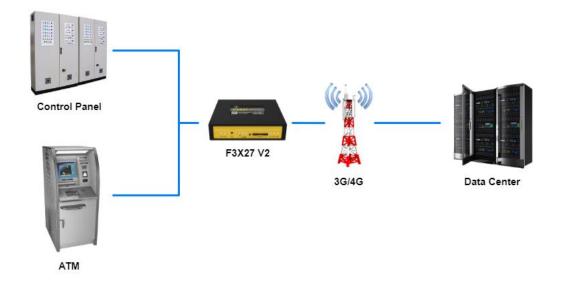| Power Consumption		
Model	F3827 V2	F3C27 V2
Items	Contents	
Standby	4G: 96~130mA @ 12VDC 3G: 96~115mA @ 12VDC 2G: 83~90mA @ 12VDC	
Communicating	4G: 203~290mA @ 12VDC 3G: 172~305mA @ 12VDC 2G: 113~148mA @ 12VDC	

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Physical Properties		
Model	F3827 V2	F3C27 V2
Items	Contents	
Casing	Metal casing, IP30 protection level, suitable for most industrial control applications.	
Dimensions	100 x 97 x 25mm (Excluding antennas and mountings)	
Weight	320g	
Others		
Model	F3827 V2	F3C27 V2
Items	Contents	
Operating Temperature	-35~+75℃	
Storage Temperature	-40~+85℃	
Relative Humidity	95% (non-condensing)	

Topology

Order Information

Models	Description
F3827 V2	LTE Router
F3C27 V2	Cat.1 Router