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F3827 Series Router Technical Specification

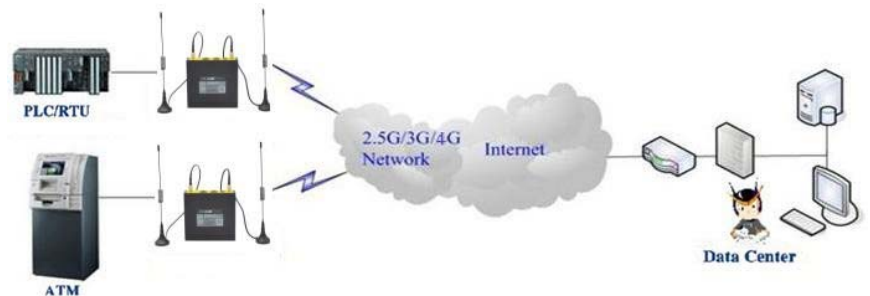


General

F3827 Router is a kind of cellular terminal device that provides data transfer function by public GPRS/WCDMA/LTE network.

It adopts high-powered industrial 32-bits CPU and embedded real time operating system. It supports RS232 (or RS485/RS422) and Ethernet port that can conveniently and transparently connect one device to a cellular network, allowing you to connect to your existing serial and Ethernet devices with only basic configuration.

It has been widely used on M2M fields, such as self-service terminal, intelligent transportation, smart grid, industrial automation, telemetry, finance, POS, water supply, environment protection, post, weather, and so on.



Product Feature

Design for Industrial Application

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

Stability and 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
- ◆ Power port: reverse-voltage and over-voltage protection
- ◆ Antenna port: lightning protection(optional)

Standard and Convenience

- ◆ Support standard RS232(or RS485/RS422), Ethernet port that can connect to serial, Ethernet devices 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)

High-performance

- ◆ Support multiple WAN access methods, including static IP, DHCP, L2TP, PPTP, PPPOE, 2.5G/3G/4G
- ◆ Support double link backup between Cellular and WAN (PPPOE, ADSL) (optional)
- ◆ Support VPN client (PPTP, L2TP, IPSEC and GRE) (only for VPN version)
- ◆ Support VPN server (PPTP, L2TP, IPSEC and GRE) (only for VPN version)

- ◆ Support multiple DDNS provider service
- ◆ Support local and remote firmware upgrade, import and export configure file
- ◆ Support NTP, RTC embedded
- ◆ Support VLAN, MAC Address clone, PPPOE Server
- ◆ 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
- ◆ Schedule Online and Offline

Product Specification

F3827 Series Cellular Specification

Item	Content
F3827 FDD LTE ROUTER	
Standard and Band	LTE FDD: B1(2100MHz)/B2(1900MHz)/B3(1800MHz)/B4(1700MHz)/B5(850MHz)/B7(2600MHz)/B8(900MHz)/B28(700MHz) 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	LTE FDD: Download speed 150Mbps, 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

F3827 Series Router Technical Specification

Hardware System

Item	Content
CPU	Industrial 32bits CPU
FLASH	16MB(Extendable to 64MB)
DDR2	128MB

Interface type

Item	Content
Ethernet	1 10/100 Mbps Ethernet port(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, mark)(optional) Baud rate: 2400~115200 bps
Indicator	"PWR", "SYS", "SIM", "Online", "ETH", "Signal Strength"
Antenna	Cellular:1 or 2 Standard SMA female interface, 50 ohm, lightning protection(optional)
SIM/UIM	Standard 3V/1.8V user card interface, 15KV ESD protection
Power	Standard 3-PIN power jack, reverse-voltage and overvoltage protection
Reset	Restore the router to its original factory default settings



Note: There may be different components and interfaces in different model, please in kind prevail.

Power supply

Item	Content
Standard Power	DC 12V/1.5A
Power range	DC 5~36V

Consumption

Working condition	Consumption
Standby	4G:96~130mA@12VDC 3G:96~115mA@12VDC 2G:83~90mA@12VDC
Communication	4G:203~290mA@12VDC 3G:172~305mA@12VDC 2G:113~148mA@12VDC

F3827 Series Router Technical Specification

Physical Characteristics

Item	Content
Housing	Iron, providing IP30 protection
Dimensions	100x97x25 mm
Weight	320g

Environmental Limits

Item	Content
Operating Temperature	-35~+75°C(-31~+167°F)
Storage Temperature	-40~+85°C (-40~+185°F)
Operating Humidity	95% (unfreezing)

Ordering Information

Model No.	Description	WAN	LAN	Cellular	WIFI	SIM/UIM
F3827	FDD LTE ROUTER	-	1	2	-	1

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