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## F3727 LTE&TD-SCDMA ROUTER TECHNICAL SPECIFICATION

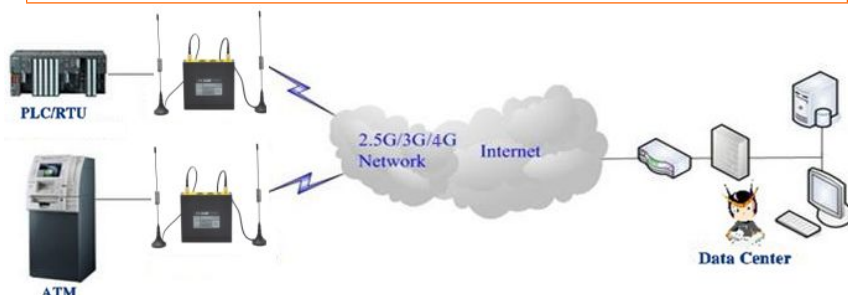


### General

F3727 LTE&TD-SCDMA Router is a kind of cellular terminal device that provides data transfer function by public LTE-TDD 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, scheduled power-on/power-off mode(optional)
- ◆ 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 overvoltage 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 3G/HSPA/4G WAN access methods.
- ◆ Support VPN client(PPTP, L2TP, OPENVPN, IPSEC and GRE)(only for VPN version)
- ◆ Support VPN server(PPTP, L2TP, OPENVPN, IPSEC and GRE)(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 MAC Address clone, PPPoE Server
- ◆ Support multi 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, HTTP, POP3, OICQ, TELNET, FTP, SNMP, SSHD, etc.
- ◆ ,Schedule Reboot, Schedule Online and Offline,etc.

## Product Specification

### Cellular Specification


Cellular Module	Industrial cellular module
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Standard and Band	Support: LTE TDD 2600/2300MHz. Support: DC-HSPA+/HSPA+/HSUPA/HSDPA/UMTS 2100/900MHz Support: EDGE/GPRS/GSM 850/900/1800/1900MHz
Bandwidth	LTE(Download speed:68Mbps, upload speed:17Mbps) HSUPA:5.76Mbps(upload speed) HSDPA:14.4Mbps(Download speed) HSPA+: 28Mbps(Download speed)
TX power	<24dBm
RX sensitivity	<-106dBm

### Hardware System

Item	Content
CPU	Industrial 32bits CPU
FLASH	16MB(Extendable to 64MB)
DDR2	128MB(Extendable to 256MB)

### 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	Standard main, deputy SMA Yin double antenna interface, characteristic impedance 50 ohm
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
	

### Power supply

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

### Power consumption

Working state	Power consumption
Standby	99~130mA@12VDC
Working	215~290mA@12VDC
Timing shutdown	3.15~3.70mA@12DVC

### 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)