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F3427 WCDMA ROUTER TECHNICAL SPECIFICATION

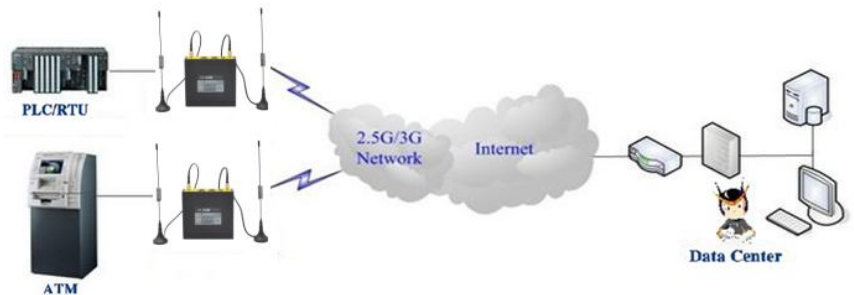


General

F3427 WCDMA ROUTER is a kind of cellular terminal device that provides data transmission function by public WCDMA/HSDPA/HSUPA/HSPA+ 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

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

Stability and Reliability

- ❶ Support hardware and software WDT
- ❶ Support auto recovery mechanism, including online detect, auto redial when offline to make router always online
- ❶ Ethernet port: 1.5KV magnetic isolation protection

- ❶ RS232/RS485/RS422 port: 15KV ESD protection
- ❶ SIM/UIM port: 15KV ESD protection
- ❶ Power port: reverse-voltage and overvoltage protection
- ❶ Antenna port: lightning protection(optional)

Standard and Convenience

- ❶ Support standard RS232(or RS485/RS422), Ethernet port that can connect to serial, Ethernet devices directly
- ❶ Support intellectual mode, enter into communication state automatically when powered

- ❶ Provide management software for remote management
- ❶ Support several work modes
- ❶ Convenient configuration and maintenance interface (WEB or CLI)

High-performance

- ❶ Support 3G/HSPA/4G WAN access methods.
- ❶ Support VPN client(PPTP, L2TP, OPENVPN, IPSEC and GRE)(only for VPN version)
- ❶ Support VPN server(PPTP, L2TP, OPENVPN, IPSEC and GRE)(only for VPN version)
- ❶ Support local and remote firmware upgrade,import and export configure file.
- ❶ Support NTP, RTC embedded.

- ❶ Support multiple DDNS provider service.
- ❶ Support MAC Address clone, PPPoE Server
- ❶ Support multi online trigger ways, including SMS, ring and data. Support link disconnection when timeout
- ❶ Support APN/VPDN
- ❶ Support DHCP server and client, firewall, NAT, DMZ host , URL block, QoS, traff,statistics, real time link speed statistics etc.
- ❶ Full protocol support , such as TCP/IP, UDP, ICMP, SMTP, HTTP, POP3, OICQ, TELNET, FTP, SNMP, SSHD, etc.
- ❶ Schedule Reboot, Schedule Online and Offline,etc.

Product Specification -----

Cellular Specification

Cellular Module	Industrial cellular module
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Standard and Band	UMTS/WCDMA/HSDPA/HSUPA/HSPA+ 850/1900/2100MHz, 850/900/1900/2100MHz(optional) GSM850/900/1800/1900MHz GPRS/EDGE CLASS 12
Bandwidth	HSUPA:5.76Mbps(Upload speed)/ HSDPA:7.2Mbps(Download speed)/UMTS:384Kbps (DL/UL)/ HSPA+: 21Mbps(Download speed)
TX power	<24dBm
RX sensitivity	<-109dBm

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	103~115mA@12VDC
Working	278~305mA@12VDC
Timing shutdown	3.15~3.70mA@12VDC

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)