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F3427 WCDMA ROUTER TECHNICAL SPECIFICATION

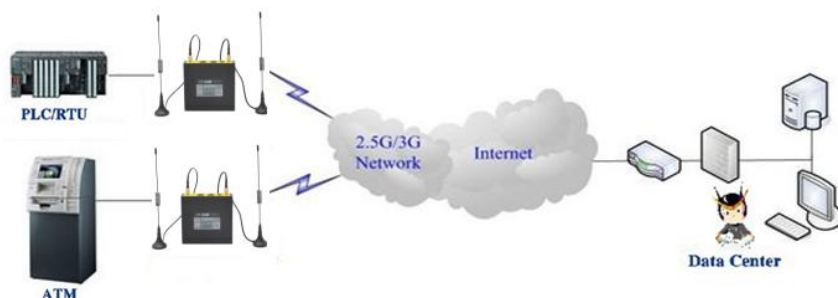


General

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

- ◆ 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 |
|-------------------|--|
| Cellular Module | Industrial cellular module |
| 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 |

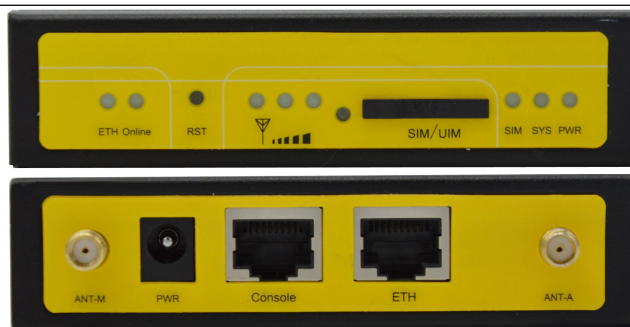
Hardware System

| 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 |

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| 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) |