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## F3826 LTE&WCDMA WIFI ROUTER TECHNICAL SPECIFICATION

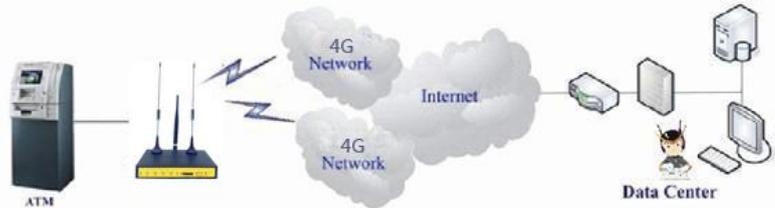


### General

F3826 LTE&WCDMA WIFI ROUTER is a kind of cellular terminal device that provides large data transfer function by public LTE&WCDMA network.

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

It has been widely used on M2M fields, such as self-service terminal industry, 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

- ◆ 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 and WIFI port that can connect to serial, Ethernet and WIFI devices directly
- ◆ Support standard WAN port and PPPOE protocol that can connect to ADSL 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, PPPOE, 3G/UMTS/4G/LTE, DHCP-4G.
- ◆ Support double link backup between LTE&WCDMA and WAN(PPPOE, ADSL) (optional)
- ◆ Support VPN client(PPTP, L2TP, IPSEC)(only for VPN version)
- ◆ Support VPN server(PPTP, L2TP, IPSEC)(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 VLAN, MAC Address clone, PPPOE

- ◆ WIFI support 802.11b/g/n. support AP, client, Repeater, Repeater Bridge mode.
- ◆ WIFI support WEP,WPA,WPA2 encryption,Support MAC address filter.
- ◆ 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 Reboot, Schedule Online and Offline,etc.

**Product Specification** -----

**Cellular Specification**

Item	Content
Cellular Module	Industrial cellular module
Standard and Band	LTE FDD 2600/2100/1800/900/800MHz (Band 1/3/7/8/20) 700/850/1700/1900/2100MHz (Band 2/4/5/13/17/25)(optional) DC-HSPA+/HSPA+/HSDPA/HSUPA/WCDMA/UMTS 2100/1900/900/850/800MHz(Band 1/2/5/6/8) EDGE/GPRS/GSM850/900/1800/1900MHz
Bandwidth	LTE FDD(Download speed:100Mbps, upload speed:50Mbps) HSUPA:5.76Mbps(upload speed) HSDPA:7.2Mbps(download speed:) UMTS:384Kbps (download speed/upload speed) HSPA+: 42Mbps(download speed) 5.76Mbps(upload speed)
TX power	<23dBm
RX sensitivity	<-93.3dBm

**WIFI Specification**

Item	Content
Standard	IEEE802.11b/g/n
Bandwidth	IEEE802.11b/g: 54Mbps (max) IEEE802.11n: 150Mbps (max)
Security	WEP, WPA, WPA2, etc. WPS (optional)
TX power	20dBm (11n) , 24dBm (11g) , 26dBm (11b)
RX sensitivity	<-72dBm@54Mbps

**Hardware System**

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

**Interface Type**

Item	Content
WAN/LAN	WAN/LAN configurable; 1 10/100 Mbps WAN port(RJ45), auto MDI/MDIX, 1.5KV magnetic isolation protection
LAN	1 10/100 Mbps Ethernet ports(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(optional), mark(optional) Baud rate: 2400~115200 bps
Indicator	"WAN", "LAN", "System", "WIFI", " Online ", "SIM", "Signal Strength", "Power"
Antenna	Cellular: 2 Standard SMA female interface, 50 ohm, lightning protection(optional) WIFI: 1 Standard SMA male 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 over-voltage 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

### Consumption

Working condition	Consumption
Standby	157~170mA@12VDC
Communication	310~485mA@12VDC
Schedule Shutdown	2.4-2.8mA@12VDC

### Physical Characteristics

Item	Content
Housing	Iron, providing IP30 protection
Dimensions	157x97x25 mm
Weight	440g

### Environmental Limits

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