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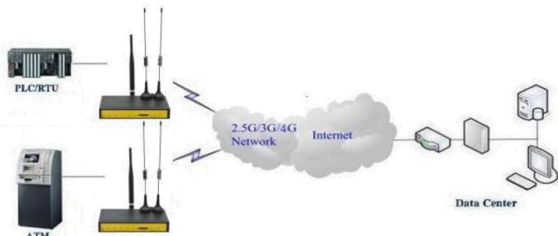
F3826 LTE/WCDMA WIFI ROUTER is a kind of cellular terminal device that provides large data transfer function by public LTE/WCDMA network.

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

F3826 LTE/WCDMA WIFI ROUTER 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 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, L2TP, PPTP, PPPOE, 2G/3G/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 Server
- WIFI support 802.11b/g/n. support AP, client, Repeater, Repeater Bridge mode
- WIFI support WEP,WPA,WPA2encryption, 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

F3826 LTE/WCDMA WIFI ROUTER Specification

Item	Content
Cellular Specification	
Cellular Module	Industrial cellular module
Standard and Band	LTE FDD 2600/2100/1800/900/800MHz, 700/1700/2100MHz(optional) 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 100Mbps, 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

WIFI Specification	
Standard	IEEE802.11b/g/n
Bandwidth	IEEE802.11b/g: 54Mbps (max) IEEE802.11n: 50Mbps (max)
Security	WEP, WPA, WPA2, etc WPS (optional)
TX power	20dBm(11n),24dBm(11g),26dBm(11b)
RX sensitivity	<-72dBm@54Mpbs

Hardware System	
CPU	Industrial 32bits CPU
FLASH	16MB(Extendable to 64MB)
DDR2	128MB

Interface type	
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", "LAN", "System", "WIFI", "Online", "SIM", "Signal Strength", "Power"
Antenna	Cellular: 2 Standard SMA female interface, 50 ohm, lighting protection(optional) WIFI: 1 Standard SMA male interface, 50 ohm, lighting 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 setting

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

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

Physical Characteristics	
Housing	Iron, providing IP30 protection
Dimensions	157x97x25 mm
Weight	440g

Environmental Limits	
Operating Temperature	-35~+75ºC(-31~+167°F)
Storage Temperature	-40~+85ºC (-40~+185°F)
Operating Humidity	95% (unfreezing)