

F3926 Series

F3926-D Technical Specification

Document Version	Confidential
V1.0.0	

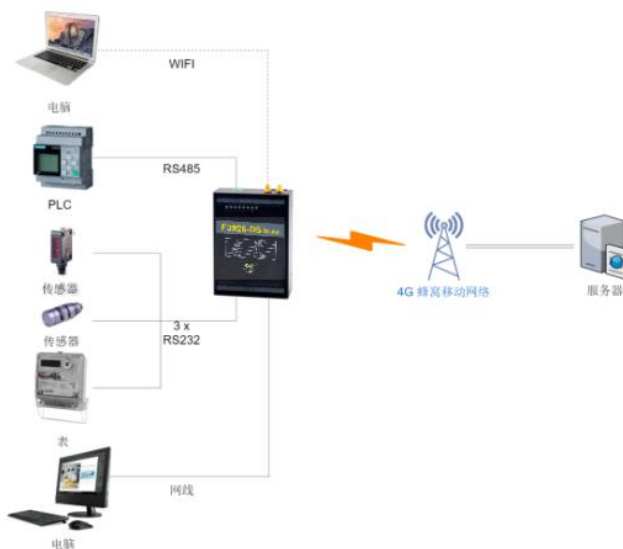


F3926-D Series ROUTER is a kind of cellular terminal device that provides large data transfer function by public GPRS/CDMA/WCDMA/EVDO/LTE network.

It adopts high-powered industrial 32-bits CPU and embedded real time operating system. It supports RS232 (3pcs)、RS485 (1pcs)、LAN(1pcs), WAN (1pcs) and WIFI (1pcs)(or GPS) interface that can connect to serial port device, Ethernet device and WIFI device at the same time to realize data transparent transmission and routing function.

It has been widely used on M2M fields, such as self-service terminal, smart grid, intelligent transportation, smart home, finance, POS, automatic supply, industrial automation, intelligent building, fire protection, public safety, environmental protection, weather, digital medical treatment, telemetry, military, space exploration, agriculture, forestry, water-related affairs, coal mine, petrification, and so on.

Application topology



Product features

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
- ◆ 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、RS485、Ethernet、WIFI、GPS 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 (Optional)
- ◆ Support several work modes, easy and flexible to use
- ◆ Convenient configuration and maintenance interface(WEB or CLI)

High-performance

- ◆ Support multiple WAN access methods, including static IP, DHCP, L2TP, PPTP,PPPOE,2.5G/3G/4G
- ◆ Support double link backup between Cellular and WAN (optional)
- ◆ Support VPN client(PPTP,L2TP,IPSEC)(Note: Only for VPN version)
- ◆ Support VPN sever(PPTP,L2TP,IPSEC)(Note: Only for VPN version)
- ◆ Support remote management, SYSLOG、SNMP、TELNET、SSHD,HTTPS etc.
- ◆ 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
- ◆ WIFI support 802.11b/g/n, support WIFI AP、AP Client, repeater, repeater bridge mode etc. (Optional)
- ◆ WIFI support WEP,WPA,WPA2 encryption, support MAC address filter
- ◆ Support multiple online and offline trigger ways, including SMS, phone call, serial data and network data
- ◆ Support APN/VPDN
- ◆ Support multichannel DHCP server and DHCP client,DHCP bind MAC address, DDNS, firewall,NAT,DMZ host,QOS,traffic statistics, real-time display of data transmission rate etc.
- ◆ Support TCP/IP、UDP、FTP(Optional)、HTTP etc.
- ◆ Support SPI firewall,VPN traversing, access control, URL filtration etc.
- ◆ Support electrical protocol conversion between 101 and 104.

Product Specification

● F3926-D series wireless parameters

Item	Content
F3926-D	
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 EDGE CLASS 12
Bandwidth	LTE FDD:download speed 100Mbps,upload speed 50Mbps DC-HSPA+:download speed 42Mbps,upload speed 5.76 Mbps HSPA+:download speed 21Mbps,upload speed 5.76 Mbps HSDPA:download speed 7.2Mbps ,HSUPA:upload speed 5.76Mbps UMTS:384Kbps
TX power	<23dBm
RX sensitivity	<-97dBm

● WIFI Specification

Item	Content
Standard	IEEE802.11b/g/n
Bandwidth	IEEE802.11b/g: 54Mbps (Max)
Security	WEP、WPA、WPA2, etc WPS (optional)
TX power	15±2dBm
RX sensitivity	<-72dBm@54Mbps

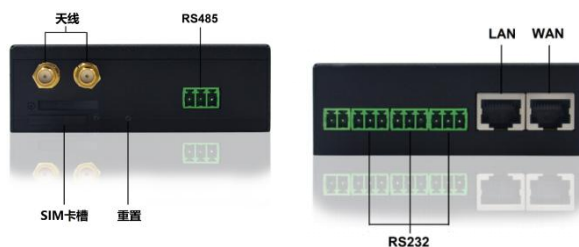
● Hardware System

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

● Interface type

Item	Content
WAN/LAN	WAN/LAN configurable,1*10/100M Ethernet port (RJ45 socket), auto MDI/MDIX, 1.5KV magnetic isolation protection
LAN	1*10/100M Ethernet ports(RJ45 socket), auto MDI/MDIX,1.5KV magnetic isolation protection
Serial port	3*RS232,1*RS485, 15KV ESD protection Data bit: 5、6、7、8 Stop bit: 1、1.5(Optional)、2 Parity: none, even, odd, space(optional), mark(optional)

	Baud rate:2400~115200bits/s
Indicator	"PWR"、"SYS"、"LAN"、"WAN"、"NET"、"Signal Strength"
Antenna	Cellular: 1* Standard SMA female interface, 50 ohm WIFI/GPS: 1 *Standard SMA male interface, 50 ohm,
SIM/UIM	Standard 3V/1.8V user card interface, 15KV ESD protection
Power	Standard 3.5mm terminal interface, reverse-voltage and over-voltage protection
Reset	Restore the router to its original factory default settings



Note: There may be different components and interfaces in different model, please in kind prevail.

● Power supply

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

● Consumption

Working condition	Consumption
Standby	95~135mA@12VDC
Communication	165~220mA@12VDC

● Physical Characteristics

Item	Content
Housing	Metal, IP30
Dimensions	126mm x 89mm x 30mm (Antenna and mounting parts are not included)
Weight	320g

● Other parameters

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

● Ordering Information

Model No.	Description	WAN	LAN	Cellular	WIFI	GPS Antenna	SIM/UIM
F3926-D-FL	FDD-LTE WIFI Router	1	1	1	1		1
F3926-D-TL	TDD-LTE WIFI Router	1	1	1	1		1
F3926-D-FL-SIM 2	FDD-LTE WIFI Router	1	1	1	1		2
F3926-D-TL-SIM 2	TDD-LTE WIFI Router	1	1	1	1		2
F3926-D-G-FL	FDD-LTE GPS Router	1	1	1		1	1
F3926-D-G-TL	TDD-LTE GPS Router	1	1	1		1	1
F3926-D-G-FL-SI M2	FDD-LTE GPS Router	1	1	1		1	2
F3926-D-G-TL-SI M2	TDD-LTE GPS Router	1	1	1		1	2