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F3X26 Series Router Technical Specification

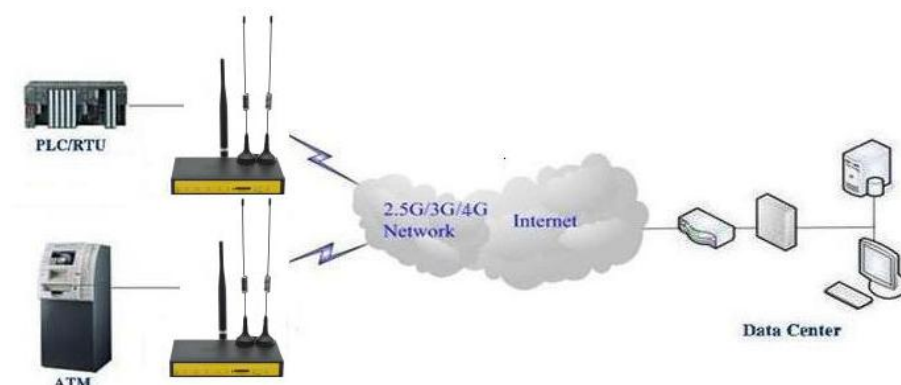


General

F3X26 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 (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
- ◆ 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

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- ◆ 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,2.5G/3G/4G
- ◆ Support double link backup between Cellular 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 multiple DDNS provider service

- ◆ Support local and remote firmware upgrade,import and export configure file
- ◆ Support NTP, RTC embedded
- ◆ Support VLAN, MAC Address clone, PPPOE Server
- ◆ 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 Online and Offline

Product Specification

F3X26 Series Cellular Specification

| Item | Content |
|--------------------------------|--|
| F3126 GPRS WIFI ROUTER | |
| Standard and Band | EGSM 900/GSM 1800MHz, GSM 850/900/1800/1900MHz(optional) Compliant to GSM phase 2/2+ GPRS class 10, class 12(optional) |
| Bandwidth | 85.6Kbps |
| TX power | GSM850/900:<33dBm GSM1800/1900:<30dBm |
| RX sensitivity | <-107dBm |
| F3226 CDMA WIFI ROUTER | |
| Standard and Band | CDMA2000 1xRTT 800MHz, 450MHz(optional) |
| Bandwidth | 153.6Kbps |
| TX power | <30dBm |
| RX sensitivity | <-104dBm |
| F3426 WCDMA WIFI ROUTER | |
| Standard and Band | UMTS/WCDMA/HSDPA/HSUPA/HSPA+ 850/1900/2100MHz, 850/900/1900/2100MHz(optional) GSM 850/900/1800/1900MHz |

| | |
|----------------------------------|---|
| | GPRS/EDGE CLASS 12 |
| Bandwidth | 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 | <24dBm |
| RX sensitivity | <-109dBm |
| F3626 EVDO WIFI ROUTER | |
| Standard and Band | CDMA2000 1X EVDO Rev A 800MHz, 800/1900MHz(optional), 450MHz(optional) CDMA2000 1X EVDO Rev B 800/1900MHz(optional) CDMA2000 1X RTT, IS-95 A/B |
| Bandwidth | EVDO Rev. A: Download speed 3.1Mbps, Upload speed 1.8Mbps EVDO Rev. B: Download speed 14.7Mbps, Upload speed 5.4Mbps (optional) |
| TX power | <23dBm |
| RX sensitivity | <-104dBm |
| F3726 TDD LTE WIFI ROUTER | |
| Standard and Band | LTE TDD 2600/1900/2300MHz(Band 38/39/40), 800/1400/1800MHz(Band 27/61/62)(optional) TD-SCDMA 2010/1900MHz(A/F frequency band, Band 34/39) GSM /GPRS/EDGE 900/1800/1900MHz |
| Bandwidth | LTE TDD: Download speed 61Mbps, Upload speed 18Mbps TD-HSPA+: Download speed 4.2Mbps, Upload speed 2.2Mbps TD-HSPA: Download speed 2.2Mbps, Upload speed 2.2Mbps |
| TX power | <23dBm |
| RX sensitivity | <-97dBm |
| F3826 FDD LTE WIFI ROUTER | |
| 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 |
| F3A26 LTE WIFI ROUTER | |
| Standard and Band | LTE FDD,LTE TDD,EVDO,WCDMA,TD-SCDMA,CDMA1X,GPRS/EDGE |
| Bandwidth | LTE FDD: Download speed 100Mbps, Upload speed 50Mbps LTE TDD: Download speed 61Mbps, Upload speed 18Mbps DC-HSPA+: Download speed 42Mbps, Upload speed 5.76Mbps |

| | |
|----------------|---|
| | TD-HSPA+: Download speed 4.2Mbps, Upload speed 2.2Mbps EVDO Rev. A: Download speed 3.1Mbps, Upload speed 1.8Mbps |
| TX power | <23dBm |
| RX sensitivity | <-97dBm |

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", "LAN", "System", "WIFI", "Online", "SIM", "Signal Strength", "Power" |
| Antenna | Cellular: 1 or 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 |



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Power supply

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

Consumption

| Working condition | Consumption |
|-------------------|--|
| Standby | 4G:156~170mA@12VDC 3G:162~201mA@12VDC 2G:134~193mA@12VDC |
| Communication | 4G:310~494mA@12VDC 3G:294~412mA@12VDC 2G:174~201mA@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) |

Ordering Information

| Model No. | Description | WAN | LAN | Cellular | WIFI | SIM/UIM |
|-----------|---------------------|-----|-----|----------|------|---------|
| F3126 | GPRS WIFI ROUTER | 1 | 1 | 1 | 1 | 1 |
| F3226 | CDMA WIFI ROUTER | 1 | 1 | 1 | 1 | 1 |
| F3426 | WCDMA WIFI ROUTER | 1 | 1 | 2 | 1 | 1 |
| F3626 | EVDO WIFI ROUTER | 1 | 1 | 1 | 1 | 1 |
| F3726 | TDD LTE WIFI ROUTER | 1 | 1 | 2 | 1 | 1 |
| F3826 | FDD LTE WIFI ROUTER | 1 | 1 | 2 | 1 | 1 |
| F3A26 | LTE WIFI ROUTER | 1 | 1 | 2 | 1 | 1 |