

YF310

4G Band 28 Cellular Router 1xLAN, 1xRS232/RS485



YF310 is a Cellular WIFI Router that provides fast data transmission by public 4G networks. It adopts high-powered industrial 32-bits CPU and embedded real time operating system. It features Ethernet and Serial (RS232 or RS485/RS422) ports that can conveniently and transparently connect devices to a cellular network, allowing you to connect to your existing peripheral devices with minimal configuration. It has been widely used on M2M applications, such as self-service terminal industry, intelligent transportation, smart grid, industrial automation, telemetry, finance, POS, water supply, environment protection, weather, and so on.

Designed for Industrial Applications

- 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

- Supports standard RS232(or RS485/RS422), Ethernet port that can connect to serial and Ethernet devices directly.
- Support intellectual mode, enter a 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 methods, 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.

Cellular Specifications

Cellular Module	
Standard and Band	LTE FDD: B1/B2/B3/B4/B5/B7/B8/B20 (2100/1900/1800/1700/850/2600/900/800MHz) FDD: B2/B4/B5/B13/B17/B25/B26 (Optional), B1/B2/B3 /B5/B7/B8/B20/B28 (Optional) LTE TDD: B38/B39/B40/B41 HSPA+/HSUPA/HSDPA/WCDMA/UMTS 2100/1900/900/850MHz EDGE/GPRS/GSM 1900/1800/900/850MHz
Bandwidth	LTE (DL:150Mbps, UL:50Mbps) HSPA+: 21Mbps (Download speed) 5.76Mbps (Upload speed) HSUPA:5.76Mbps (Upload speed) HSDPA:7.2Mbps (Download speed) UMTS:384Kbps (DL/UL) CDMA2000 1X EVDO: 3.1Mbps(DL)/1.8Mbps(UL) EDGE: 36.8Kbps(DL/UL) GPRS: 85.6Kbps
TX power	<23dBm
RX sensitivity	<-93.3dBm

Hardware

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

Interface Types

Item	
Ethernet	1 x 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(optional), mark(optional) Baud rate: 2400~115200 bps
Indicator	"Power", "System", "Online", "Alarm", " Local Network ", "WAN", "WIFI", "Signal Strength"
Antenna	Cellular: 2 Standard SMA female interface, 50 ohm, lightning protection(optional) WIFI: 1 Standard SMA male interface, 50 ohm, lightning
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	
Standard Power	DC 12V/1.5A
Power range	DC 5~36V

Power Consumption

Working condition	
Standby	103~110mA @ 12VDC
Communication	278~305mA @ 12VDC
Schedule Shutdown	3.15~3.70mA @ 12VDC

Physical Characteristics

Item	
Housing	Iron, providing IP30 protection
Dimensions	100x97x25 mm
Weight	320g

Operating Environment

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



