

# Industrial 4G Router

## YF310



### Introduction

YF310 Industrial 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/RS485 and Ethernet port that can conveniently and transparently connect one device to a cellular network, allowing you to connect to your existing serial and Ethernet devices with only basic configuration. The product has been widely used in the M2M/IoT industry.



#### Industrial-grade Design

- ▶ High-performance industrial-grade CPU
- ▶ High-performance industrial-grade wireless communication module
- ▶ Support low-consumption mode, scheduled power-on/power-off mode (Optional)
- ▶ Metal casing, IP30 protection level, suitable for most industrial control applications.
- ▶ Wide range power input (DC 5~36V)



#### Stability & Reliability

- ▶ SIM/UIM card slot with built-in 15KV ESD
- ▶ Ethernet interface with built-in 15KV ESD
- ▶ RS232/RS485 with built-in 15KV ESD
- ▶ Multiple protection mechanism to ensure system stability, always keeping online
- ▶ Auto recovery mechanism, including online detect and auto redial
- ▶ Support hardware and software WDT



#### Standard & Convenience

- ▶ Support standard RS232 (or RS485/RS422) and Ethernet port
- ▶ Provide management software for remote management
- ▶ Support intellectual mode, automatically enter transmission status after power-on
- ▶ Easy to use and flexible, has multiple working modes
- ▶ Convenient configuration and maintenance interface (WEB or CLI)
- ▶ DIN-Rail mounting, wall mounting or desktop

# Industrial 4G Router YF310 Series



High Performance

- ▶ Support 3G/HSPA/4G WAN access methods.
- ▶ Support NTP, RTC embedded
- ▶ Support APN/VPDN
- ▶ Support multiple DDNS provider service
- ▶ Support remote management
- ▶ Support DHCP server/client, NAT, DMZ host, Qos.
- ▶ Support firewall, URL block, traffic statistics, real time link speed statistics, etc.
- ▶ Support VPN server (PPTP, L2TP, OPENVPN,IPSEC and GRE)
- ▶ Support VPN Client (PPTP, L2TP, OPENVPN,IPSEC and GRE)
- ▶ Support SMS, phone ringing, serial data, network data online/offline trigger modes
- ▶ Support multiple DDNS provider service
- ▶ Full protocol support, such as TCP/IP, UDP, ICMP, SMTP, HTTP, POP3, OICQ, TELNET, FTP, SNMP, SSHD.
- ▶ Schedule Reboot, Schedule Online and Offline, etc.

## Product Specification

Cellular Specification	
Items	Contents
<b>Standard and Band</b>	LTE FDD: B1/B3/B5/B7/B8/B20/B28 B1/B2/B3/B4/B5/B7/B8/B28 (Optional), B2/B4/B5/B12/B13/B17/B66/B71 (Optional) LTE TDD: B38/B39/B40/B41 HSPA+/HSUPA/HSDPA/WCDMA/UMTS 2100/1900/900/850MHz EV-DO: BC0 CDMA 1x: BC0 EDGE/GPRS/GSM 850/900/1800/1900MHz
<b>Bandwidth</b>	FDD-LTE: Downstream rate 150Mbps, uplink rate 50Mbps TD-LTE: Downstream rate 130Mbps, uplink rate 35Mbps DC-HSPA+: Downstream rate 42Mbps, uplink rate 5.76 Mbps HSPA+: Downstream rate 21Mbps, uplink rate 5.76 Mbps UMTS: 384Kbps
<b>Transmit Power</b>	< 23dBm
<b>Sensitivity</b>	< -93.3dBm

# Industrial 4G Router YF310 Series



Hardware System	
Items	Contents
CPU	Industrial-grade CPU
Flash	16MB(Extendable to 64MB)
DDR2	128MB
Interfaces	
Items	Contents
LAN Interface	1 x 10/100M RJ45 ethernet port, adaptive MDI/MDIX, built-in 15KV ESD
Serial	1 x RS232/RS485 serial interface with built-in 15KV ESD Data bits:5, 6, 7, 8 bits Stop bits:1, 1.5 (optional), 2 bits Error detection: none, even parity, odd parity, SPACE (optional) and MARK (optional) Serial Port Rate: 2400~115200bits/s
LED Indicators	"PWR", "SYS", "SIM", "Online", "ETH", "Signal Strength"
Antenna Interface	Cellular: 2 * Standard SMA female antenna interface, characteristic impedance: 50 Ω
SIM/UIM Slot	Standard SIM card slot, support 1.8V/3V SIM/UIM card, built-in 15KV ESD
Power Interface	Standard 3-PIN power jack, reverse-voltage and overvoltage protection
Reset Button	Restore the router to its original factory default settings



Note: There may be differences between models of accessories and interfaces, actual products shall prevail.

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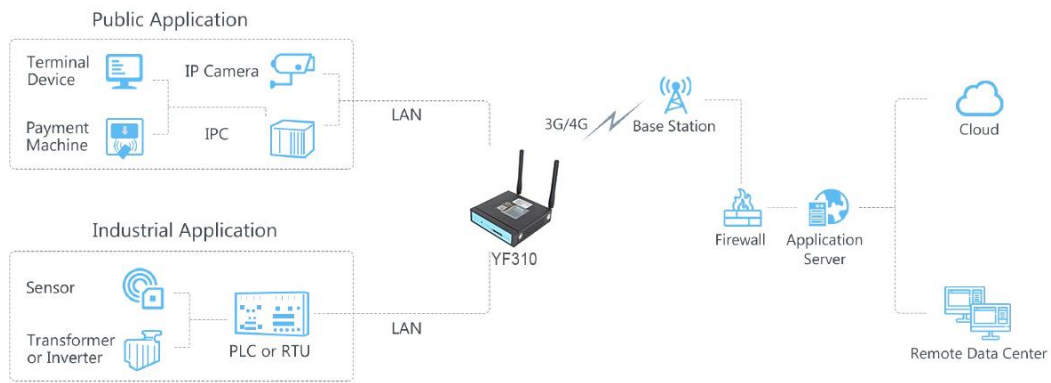


Power	
Items	Contents
Input Voltage	DC 12V/1.5A
Accepted Range	DC 5~36V
Power Consumption	
Work Mode	Consumption
Standby	103 ~ 115mA@12VDC
Communicating	278~305mA@12VDC
Timing shutdown	3.15~3.70mA@12DVC
Physical Properties	
Items	Contents
Casing	Metal casing, IP30 protection level, suitable for most industrial control applications.
Dimensions	100x97x25 mm (excluding antennas and mountings)
Weight	320g
Others	
Items	Contents
Operating Temperature	-35~+75°C
Storage Temperature	-40~+85°C
Relative Humidity	95% (non-condensing)

# Industrial 4G Router YF310 Series



## Topology



## Dimension



## Order Information

Models	Description	LAN	RS232/RS485	Cellular Antennas	SIM/UIM
YF310-L	Industrial LTE Router	1	1	2	1