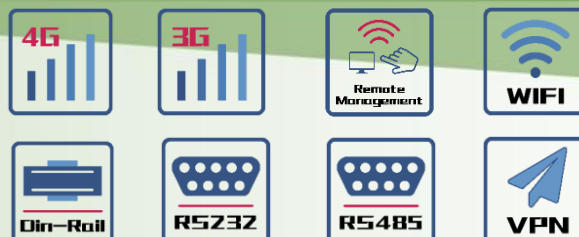


# Industrial 4G Router

## YF336



### Introduction

YF336 Industrial Router is an IoT wireless communication router. It is using public cellular network GPRS/CDMA/WCDMA/EVDO/LTE to provide long distance, wireless and large data transmission function for users. It provides RS232, RS485, Ethernet ports and WIFI that can be connected to the serial devices, Ethernet devices and WIFI devices at the same time, achieve data pass-through function.. The product has been widely used in the M2M industry of the IoT industrial chain, such as smart grid, intelligent transportation, smart manufacturing, smart home, and finance.



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

- ▶ Standard RS232/RS485, ethernet and WIFI interface
- ▶ Standard wired WAN interface (support standard PPPOE protocol), Can be connected to ADSL devices directly
- ▶ Intelligent data terminal, automatically enter transmission status after power-on
- ▶ Powerful central management software for easy device management (optional)
- ▶ Easy to use and flexible, has multiple working modes
- ▶ Convenient system configuration and maintenance interface (including local and remote WEB or CLI access)
- ▶ DIN-Rail mounting, wall mounting or desktop

# Industrial 4G Router YF336 Series



High Performance

- ▶ Support dual-link intelligent switching function (Dual-SIM version)
- ▶ Support LTE and wired WAN dual-link intelligent switching backup function (Optional)
- ▶ Multiple WAN connection methods, include Static IP/DHCP/PPPOE/DHCP-4G
- ▶ Support APN/VPDN
- ▶ Support NTP, RTC embedded.
- ▶ Support multiple DDNS provider service
- ▶ Support multiple online trigger ways, including SMS, ring and data. Support link disconnection when timeout
- ▶ Support remote management, SYSLOG, SNMP, TELNET, SSHD, HTTPS, etc.
- ▶ Support upgrade software from the local and remote maintenance
- ▶ Support various network protocols including TCP/IP, UDP, FTP (optional), HTTP, etc.
- ▶ Support SPI firewall, access control, URL filtering, etc.
- ▶ WIFI 802.11b/g/n. Support AP, client, Adhoc, Repeater, Repeater Bridge mode.
- ▶ Support VPN Client (PPTP/L2TP/OPENVPN/IPSEC/GRE)
- ▶ Support VPN Server (PPTP/L2TP/OPENVPN/IPSEC/GRE)
- ▶ Support DHCP server and client, firewall, NAT, DMZ host , URL block, QOS, traffic, statistics, real time link speed statistics etc.

## Product Specification

Cellular Specification	
Items	Contents
Standard and Band	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
Bandwidth	FDD-LTE: Downstream rate 150Mbps, uplink rate 50Mbps TD-LTE: Downstream rate 130Mbps, uplink rate 35Mbps TD-HSPA+: Downstream rate 4.2Mbps, uplink rate 2.2Mbps DC-HSPA+: Downstream rate 42Mbps, uplink rate 5.76 Mbps HSPA+: Downstream rate 21Mbps, uplink rate 5.76 Mbps UMTS: 384Kbps
Transmit Power	< 23dBm
Sensitivity	<-97dBm

# Industrial 4G Router YF336 Series



## WIFI Specification

Items	Contents
Standard and Band	IEEE802.11b/g/n
Bandwidth	IEEE802.11b/g: 54Mbps (Maximum) IEEE802.11n: 144Mbps (Maximum)
Security	Support WEP, WPA, WPA2 encrypt methods, optional WPS function
Transmit Power	15 ± 2dBm
Sensitivity	< -72dBm @ 54Mbps

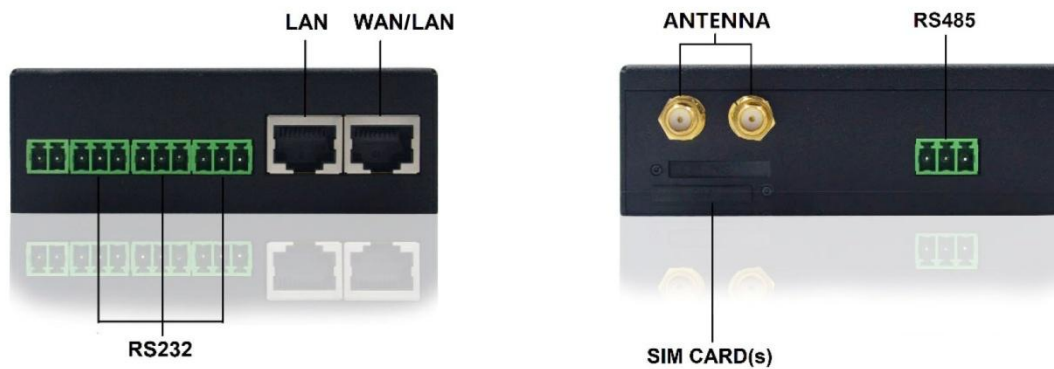
## Hardware System

Items	Contents
CPU	Industrial-grade CPU
Flash	16MB(Extendable to 64MB)
DDR2	128MB(Extendable to 256MB)

## Interfaces

Items	Contents
WAN/LAN Interface	1 x 10/100M RJ45 ethernet port, adaptive MDI/MDIX, built-in 15KV ESD
LAN Interface	1 x 10/100M RJ45 ethernet port, adaptive MDI/MDIX, built-in 15KV ESD
Serial	3 x RS232, 1 x 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)
LED Indicators	"PWR", "SYS", "LAN", "WAN", "NET", Signal Indicator
Antenna Interface	Cellular: Standard SMA female antenna interface, characteristic impedance: 50 Ω WIFI: Standard SMA male antenna interface, characteristic impedance: 50 Ω
SIM/UIM Slot	Standard SIM card slot, support 1.8V/3V SIM/UIM card, built-in 15KV ESD Support dual-SIM card (Optional)
Power Interface	Standard 3.5mm terminal block interface, with built-in phase-reversal and over-voltage protection
Reset Button	Can reset router's configuration to default factory setting by this button

# Industrial 4G Router YF336 Series



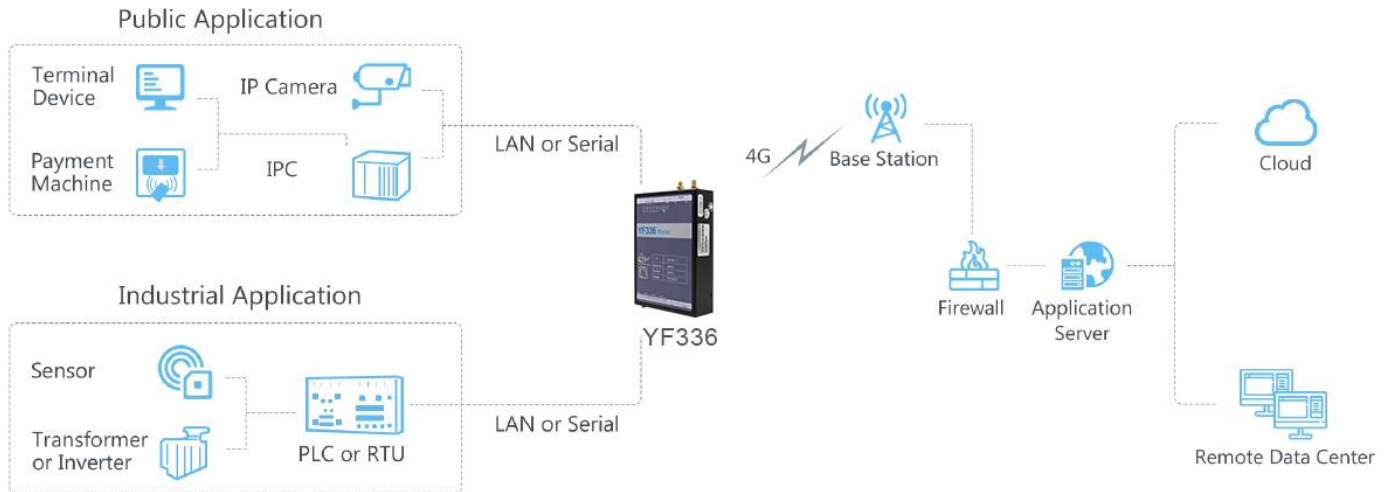
Note: There may be differences between models of accessories and interfaces, actual products shall prevail.

Power	
<b>Items</b>	<b>Contents</b>
<b>Input Voltage</b>	DC 12V/1.5A
<b>Accepted Range</b>	DC 5~36V
Power Consumption	
<b>Work Mode</b>	<b>Consumption</b>
<b>Standby</b>	95~135mA@12VDC
<b>Communicating</b>	165 ~ 220mA@12VDC
Physical Properties	
<b>Items</b>	<b>Contents</b>
<b>Casing</b>	Metal casing, IP30 protection level, suitable for most industrial control applications.
<b>Dimensions</b>	126 x 89 x 30mm (excluding antennas and mountings)
<b>Weight</b>	320g
Others	
<b>Items</b>	<b>Contents</b>
<b>Operating Temperature</b>	-35~+75°C
<b>Storage Temperature</b>	-40~+85°C
<b>Relative Humidity</b>	95% (non-condensing)

# Industrial 4G Router YF336 Series



## Topology



## Dimension



# Industrial 4G Router YF336 Series



## Order Information

Models	Description	WAN/LAN	LAN	RS232	RS485	Cellular Antenna	WIFI Antenna	SIM/UIM
YF336-L	LTE WIFI Router	1	1	3	1	1	1	1
YF336-L-SIM2	LTE WIFI Router	1	1	3	1	1	1	2