

Yeacomm YF325

Yeacomm YF325 Industrial 4G LTE WiFi Router User Manual

Model: YF325

INTRODUCTION

The Yeacomm YF325 is an industrial-grade 4G LTE WiFi router designed for robust and reliable cellular connectivity in various demanding environments. It supports multiple WAN access methods, including static IP, DHCP, PPPOE, 3G/UMTS/4G/LTE, and DHCP-4G. This manual provides comprehensive instructions for setting up, operating, and maintaining your YF325 router.

KEY FEATURES

- **Multiple WAN Access Methods:** Supports static IP, DHCP, PPPOE, 3G/UMTS/4G/LTE, and DHCP-4G for flexible network integration.
- **VPN Support:** Includes PPTP, L2TP, IPSEC, and GRE VPN client functionalities for secure data transmission.
- **Dual SIM Card Slots:** Provides dual SIM failover for enhanced network reliability and redundancy.
- **Industrial Design:** Built with a high-powered industrial 32-bit CPU and embedded real-time operating system for reliable performance in harsh conditions.
- **Versatile Interfaces:** Equipped with RS232 serial port (RS485 optional), Ethernet ports (LAN/WAN/LAN), and Wi-Fi (802.11b/g/n) for diverse connectivity needs.
- **Wide Frequency Band Support:** Specifically supports B2/4/5/12/13/17/66/71 US Full Frequency Band, suitable for North and South America.
- **Remote Management:** Supports remote management platforms for convenient monitoring and control.
- **DIN-Rail Mounting:** Designed for easy installation in industrial control cabinets.

WHAT'S IN THE BOX

- 1 x Yeacomm YF325 4G Router
- 2 x Cellular Antennas
- 2 x WIFI Antennas
- 1 x Network Cable
- 1 x Power Adapter
- 1 x Din-rail Bracket
- 1 x SIM Card Adapter with Steel Tray Eject Pin (Gift)

Industrial Cellular Router



Network Cable



WIFI Antenna



Magnet Cellular Antenna



Power Adapter



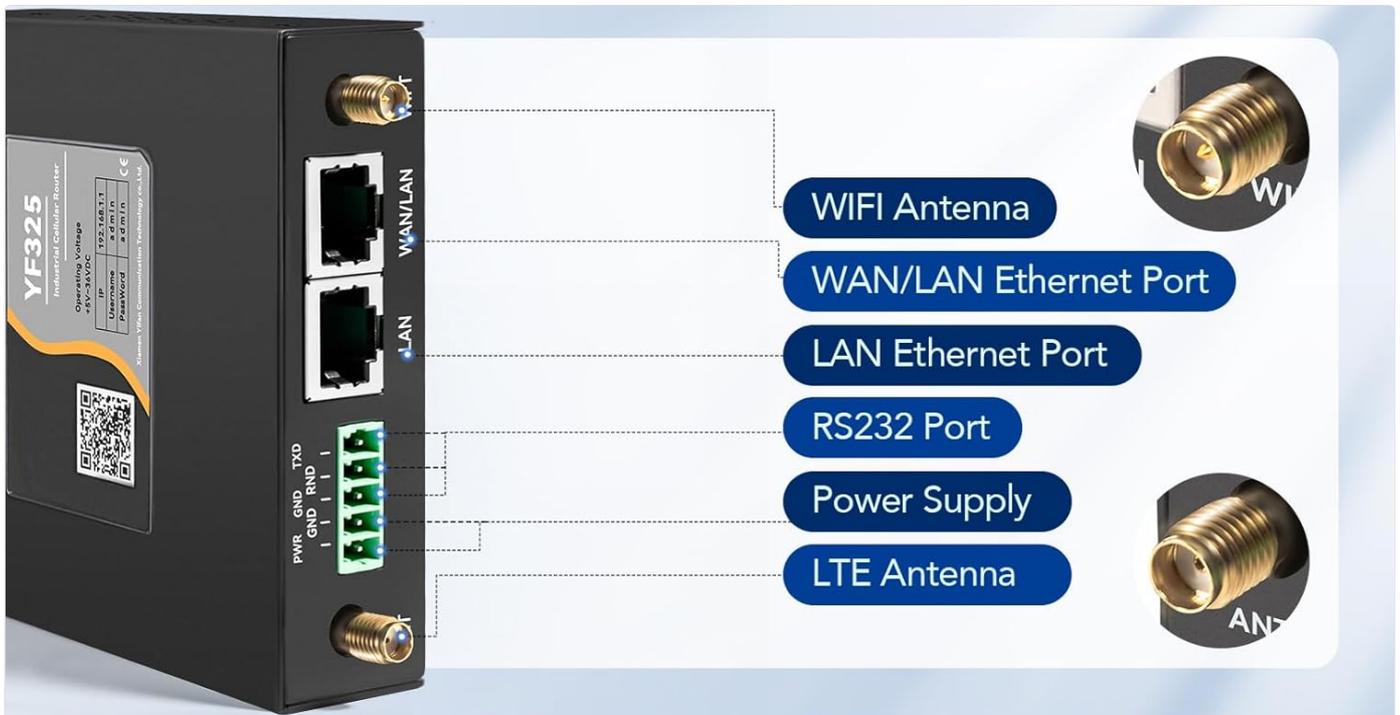
Din Rail Bracket

Image: Components included with the Yeacomm YF325 router, showing the router unit, antennas, power adapter, network cable, and DIN-rail bracket.

PRODUCT OVERVIEW



Image: The Yeacomm YF325 industrial 4G LTE router shown with its included cellular and Wi-Fi antennas. The router features multiple ports on its side for power, data, and antenna connections. For more information, visit www.yifanwireless.com.



Standard 2FF SIM
15*25(mm)

Dual SIM card slots

Reset

LED Lights

Aux LTE Antenna



Image: Detailed view of the Yeacomm YF325 router's interfaces, including the WiFi Antenna port, WAN/LAN Ethernet port, LAN Ethernet port, RS232 port, Power Supply terminals, and LTE Antenna port. The bottom view illustrates the dual SIM card slots (SIM1, SIM2), Reset button, LED indicators (WiFi, LAN, PWR), and an auxiliary LTE antenna port. For more information, visit www.yifanwireless.com.



DIN-Rail mounting



Image: The Yeacomm YF325 router with its approximate dimensions: 3.46 inches (width) and 3.62 inches (depth). An inset shows the DIN-Rail mounting bracket, highlighting its suitability for industrial installations.



Dual SIM
Failover



Compact Size
Easy Installation



High Performance
and Reliability



Multiple Interface
Ethernet/RS232/WIFI



Remote Management
Platform



Robust Security
Features



Image: Icons representing key features of the Yeacomm YF325 router: Dual SIM Failover, Compact Size & Easy Installation, High Performance & Reliability, Multiple Interfaces (Ethernet/RS232/WIFI), Remote Management Platform, and Robust Security Features.

Widely Used in IoT Industries



Secure ATM



Smart Vending



Smart Sortation



Vehicles



Digital Signage



Surveillance



Image: Examples of where the Yeacomm YF325 router is widely used in IoT industries, including Secure ATMs, Smart Vending machines, Smart Sortation systems, Vehicles, Digital Signage, and Surveillance systems.



Stability & Reliability

- Dual-link intelligent switching between primary card and backup card.
- Upgrade software from the local and remote maintenance.
- VPN Client (PPTP/L2TP/OPENVPN/IPSEC/GRE).

Image: Highlights of the Yeacomm YF325 router's stability and reliability features: Dual-link intelligent switching between primary and backup SIM cards, ability to upgrade software from local and remote maintenance, and VPN Client support (PPTP/L2TP/OPENVPN/IPSEC/GRE).



Image: The Yeacomm YF325 router is designed for robust operation across various environmental conditions, supporting a DC 5~36V voltage input range, an operating temperature range from -35°C to 75°C, and up to 95% relative humidity.

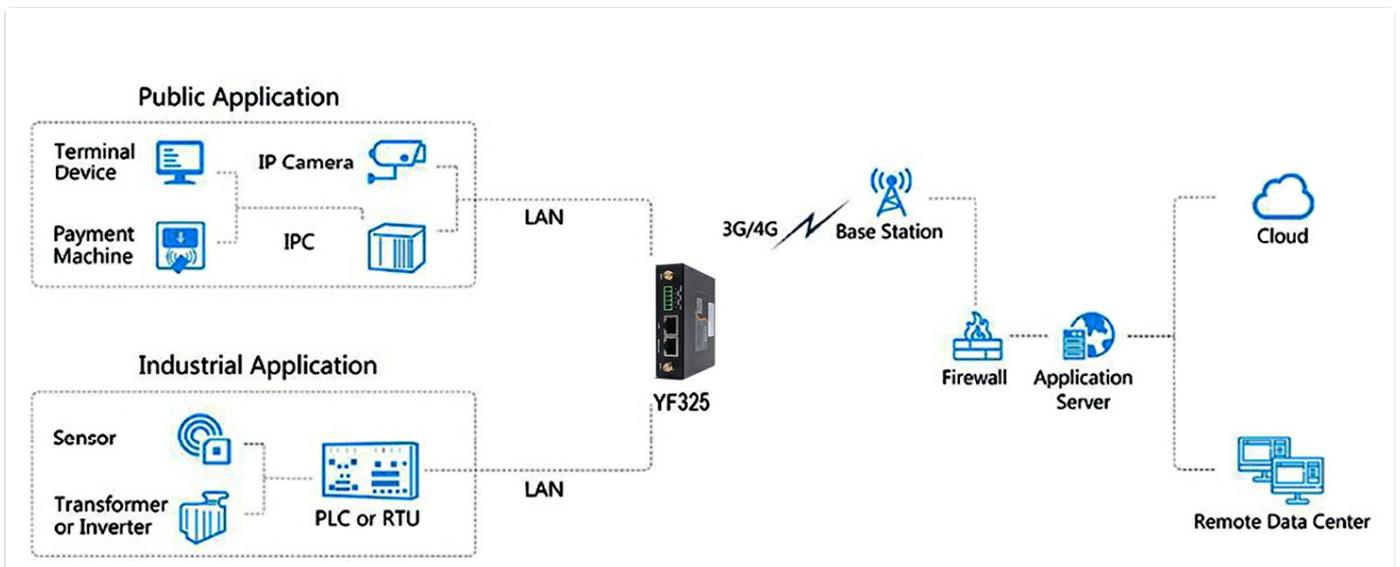


Image: A diagram illustrating typical network applications for the Yeacomm YF325 router, showing its integration in both public applications (e.g., terminal devices, IP cameras, payment machines) and industrial applications (e.g., sensors, PLCs, RTUs), connecting to a 3G/4G base station, cloud services, and remote data centers via firewalls and application servers.

SETUP GUIDE

1. SIM Card Installation

The YF325 router supports dual standard 2FF SIM cards (15x25mm). Ensure the router is powered off before inserting or removing SIM cards.

1. Locate the SIM card slots on the side of the router.
2. Insert the SIM card(s) into the designated slots (SIM1 and SIM2) with the gold contacts facing down and the notched corner oriented correctly. Push until the card clicks into place.
3. The router supports dual SIM failover, allowing for automatic switching between SIM cards for continuous connectivity.



Image: Close-up view of the dual SIM card slots on the Yeacomm YF325 router, indicating the standard 2FF SIM size and the location of SIM1 and SIM2 slots.

2. Antenna Connection

Connect the cellular and Wi-Fi antennas to their respective ports on the router. Ensure they are securely tightened.

- Connect the two cellular antennas to the "ANT" ports.
- Connect the two Wi-Fi antennas to the "WIFI" ports.

3. Power Connection

Connect the provided power adapter to the router's power input terminals. The router supports a DC 5~36V voltage input range.

- Connect the positive wire (black and white mixed cord) to the 'PWR' terminal.
- Connect the negative wire (black cord) to the 'GND' terminal.
- Plug the power adapter into a suitable power outlet.



Image: Diagram showing the power connection terminals (PWR, GND) and their corresponding wire colors, along with the Cellular Antenna, LAN Ports, and WAN/LAN WiFi Antenna Port.

4. Network Cable Connection (Optional)

If connecting to a wired network or a device via Ethernet, use the provided network cable.

- Connect one end of the Ethernet cable to the LAN or WAN/LAN port on the router.
- Connect the other end to your computer or network device.

5. Initial Configuration

After connecting all components, power on the router. The LED indicators will illuminate. To access the router's web management interface:

1. Connect your computer to the router via Wi-Fi or Ethernet.
2. Open a web browser and enter the default IP address (usually 192.168.1.1 or similar, refer to the sticker on the device or included documentation for exact details).
3. Enter the default username and password (typically admin/admin or similar).
4. Follow the on-screen wizard to configure your internet connection settings, Wi-Fi name (SSID), and password.

OPERATING INSTRUCTIONS

Power On/Off

To power on the router, ensure the power adapter is connected and plugged into an active power source. The router will automatically power on. To power off, simply disconnect the power adapter.

Connecting Devices

- **Wi-Fi:** Search for the router's Wi-Fi network name (SSID) on your wireless device and enter the Wi-Fi password.
- **Ethernet:** Connect devices directly to the LAN ports using an Ethernet cable.

VPN Configuration

The YF325 supports various VPN client protocols including PPTP, L2TP, IPSEC, and GRE. Configuration for these VPNs is performed via the router's web management interface. Refer to the online documentation or the router's interface for detailed steps on setting up your desired VPN connection.

Software Upgrade

Firmware upgrades can be performed locally or remotely to ensure optimal performance and access to the latest features. Consult the router's web interface for the firmware upgrade section and follow the instructions provided.

Band Locking

The router supports band locking, which allows you to specify particular frequency bands for cellular connectivity. This feature can be useful in areas with fluctuating signal strength across different bands. This setting is accessible through the router's web management interface.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the router's exterior. Do not use liquid cleaners or aerosols.
- **Firmware Updates:** Regularly check for and install firmware updates from the official Yeacomm website or through the router's web interface to ensure security and performance.
- **Placement:** Place the router in a well-ventilated area, away from direct sunlight, heat sources, and moisture. Ensure antennas are positioned for optimal signal reception.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No Internet Connection	No SIM card, incorrect APN settings, weak cellular signal, or service provider issue.	Ensure SIM card is correctly inserted. Verify APN settings in the web interface. Check cellular signal strength. Contact your mobile service provider.
Wi-Fi Not Working	Wi-Fi disabled, incorrect password, or interference.	Check Wi-Fi settings in the web interface to ensure it's enabled. Verify Wi-Fi password. Change Wi-Fi channel to avoid interference.
Cannot Access Web Interface	Incorrect IP address, network cable issue, or IP conflict.	Ensure you are using the correct default IP address. Check Ethernet cable connection. Temporarily disable firewall on your computer. Try resetting the router.
Router is Unresponsive	Power issue or system crash.	Disconnect and reconnect the power adapter. If the issue persists, perform a factory reset (refer to the reset button location in the product overview).

Factory Reset

To perform a factory reset, locate the 'Reset' button on the router (as shown in the product overview images). With the router powered on, use a thin object (like a paperclip) to press and hold the reset button for approximately 5-10 seconds until the LED indicators change, then release. The router will reboot with factory default settings.

SPECIFICATIONS

Feature	Detail
Model Name	YF325
Brand	Yeacomm
Connectivity Technology	3G, 4G, Ethernet, Wi-Fi
Wireless Communication Standard	802.11b, 802.11g, 802.11n
Frequency Band Class	Single-Band (2.4 GHz)
Supported Frequency Bands (US)	B2/4/5/12/13/17/66/71
Compatible Devices	Personal Computer, Industrial devices
Special Features	Internet Security, LED Indicator, Remote Access, Weatherproof (Industrial Grade)
Power Input	DC 5~36V
Operating Temperature	-35°C to 75°C
Relative Humidity	Up to 95%
Dimensions (L x W x H)	Approximately 3.62 x 3.46 x 0.9 inches (router body)

Feature	Detail
Item Weight	1.32 pounds

WARRANTY AND SUPPORT

Yeacomm products typically come with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your product or visit the official Yeacomm website. For technical support, troubleshooting assistance, or any inquiries, please contact Yeacomm customer service through their official channels.

Manufacturer: Yeacomm

Official Website: www.yifanwireless.com

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Documents - Yeacomm – YF325



[\[pdf\]](#) Test Report

FCC PART 15 news Test Report 2G4WLAN Xiamen Yifan Communication Technology Co Ltd YF325 4G Industrial Router 2AT35 2AT35YF325 yf325

Page 1 of 37 FCC ID:2AT35-**YF325** Report No.: LCSA08054167EA FCC TEST REPORT For Xiamen Yifan Communication Technology Co., Ltd 4G Industrial Router Test Model: **YF325** Additional Model No.: YF335, YF336, YF355 Prepared for Address : Xiamen Yifan Communication Technology Co., Ltd : G612-2, Room601,... lang:en score:27 filesize: 1.53 M page_count: 37 document date: 2024-09-29