Yeacomm®

Industrial Router

R350-Outdoor

4G | Remote Management | IP66 | VPN | RS232 | RS485 | Dual-SIM | WIFI

Introduction

R350-Outdoor is an industrial-grade router featuring a high-performance processor and wireless module, running on **YEA_OS** firmware (an OpenWRT 24.10 derivative with a modern web management interface). It offers versatile connectivity with 1 x RS232, 1 x RS485, 4 x Ethernet LAN, 1 x Ethernet WAN/LAN, DI/DO, and Wi-Fi. This router enables seamless data transmission between serial, Ethernet, and Wi-Fi devices. It supports dual SIM cards with intelligent switching for backup, making it perfect for industrial IoT and M2M applications, ensuring reliable and continuous connectivity.

Industrial-grade Design

- High-performance industrial-grade CPU
- High-performance industrial-grade wireless communication module
- Enclosure material: ABS, IP66 protection level
- Wide range power input (DC 9~48V)

Stability & Reliability

- EMC Level 3 and above, with strong anti-interference capability
- Dual SIM card design with complete dropout prevention mechanisms, ensuring the data terminal is always online
- Ethernet interface with 1.5KV electromagnetic isolation protection
- RS232/RS485 interfaces with 1.5KV ESD protection
- SIM card interface with 15KV ESD protection

Standard & Convenience

- Provides standard RS232 and RS485 ports for direct connection to serial devices
- 5 x 100M Ethernet ports for direct connection to Ethernet devices
- Supports standard network protocols, ensuring strong compatibility
- Supports remote management, simplifying operations
- Supports Pole-mounted and wall-mounted installation for flexible deployment

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Web: www.yifanwireless.com

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High Performance

- Supports multiple VPN protocols including PPTP, L2TP, IPsec, GRE, OpenVPN, ZeroTier and WireGuard
- Built-in MQTT gateway, supporting data transparent transmission to HTTP/MQTT/Azure cloud
- Supports remote management platform and PC client applications
- Supports SPI firewall
- Wi-Fi supports multiple encryption methods including WEP, WPA, WPA2 and, etc.
- Supports multiple network protocols including TCP, UDP, IPv4, IPV6, DNS, HTTP, HTTPS, SNMP, MQTT, Telnet
- Supports mounting remote file systems via SSH protocol
- Equipped with DDoS protection (SYN flood protection, SSH attack protection, Telnet attack protection)
- Flexible access control for SSH, Web interface, CLI, and Telnet
- Supports MODBUS TCP and Modbus RTU status/control
- Use MQTT+SSL/TLS Https WebSocket to connect to the IoT platform
- Support Remote Management

Product Specification

Cellular Specification	
Product	**CAT4/CAT1**
Items	**Contents**
Standard and Band	**LTE FDD:** B1/B3/B5/B8 B1/B3/B5/B7/B8/B20/B28 (Optional) B1/B2/B3/B4/B5/B7/B8/B12/B17/B28/B66 (Optional), B2/B4/B5/B12/B13/B17/B66/B71 (Optional) **LTE TDD:** B38/B40/B41 **WCDMA:** 2100/1900/900/850MHz **GSM：** 850/900/1800/1900MHz
Bandwidth	**LTE CAT4:** 150Mbps DL, 50Mbps UL **LTE CAT1:** 10Mbps(DL)，5Mbps(UL)
Hardware System	
Items	**Contents**
CPU	Industrial-grade CPU
Flash	32MB
DDR2	128MB

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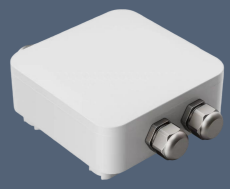

WIFI Specification	
Product	**CAT4/CAT1**
Items	**Contents**
Standard and Band	IEEE802.11b/g/n，2.4G
Bandwidth	IEEE802.11n: 300Mbps (Maximum)
Security	Support WEP, WPA, WPA2, WPA3-SAE, WPA3-EAP, OWE; AES-CCMP, TKIP, Auto-cipher modes, and other encrypt methods
Wi-Fi Users	Up to 50 simultaneous connections
Interfaces	
Items	**Contents**
WAN/LAN Interface	1 x 10/100M RJ45 ethernet port（**Support Passive POE**）
LAN Interface	1 x 10/100M RJ45 ethernet port (2 ethernet ports version) 4 x 10/100M RJ45 ethernet port (5 ethernet ports version)
Serial	1 x RS232, 1 x RS485 serial interface with built-in 15KV ESD
I/O	2 PIN Terminals: 2 x Configurable digital Inputs/Outputs Digital Input: 0 - 6 V detected as logic low, 8 - 50 V detected as logic high. Digital Output: Open collector output, max 30 V, 300 mA
LED Indicators	POWER/SIM1/SIM2/SYSTEM/CELLULAR/SIGNAL
Antenna Interface	Standard Version: Cellular: 2 x antenna, WIFI: 2 x antenna Non-WIFI Version: Cellular: 2 x antenna
SIM/UIM Slot	2 x Standard Micro SIM card slot or 1 Micro SIM slot + 1 x MFF2 eSIM (Optional)
Power Interface	2 PIN Terminals: DC input range 9-48 VDC POE: Passive mode
Reset Button	Can reset router’s configuration to default factory setting by this button
Power Consumption	
Items	**Contents**
Standard	DC 12V/1A and **Passive POE**
Voltage Range	DC 9~48V
Power consumption	≤ 7W Max
Physical Properties	
Items	**Contents**
Casing	Enclosure material: ABS, IP66 protection level
Dimensions	148 x 148 x 65mm (excluding antennas and mountings)
Weight	230g
Operating Temperature	-40~+75℃
Storage Temperature	-40~+85℃
Relative Humidity	95% (non-condensing)

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Order Information

Order Info	Ethernet Ports	Description
R350-Outdoor-L-5E	5	4G(CAT-4), 2 x SIM, 1 x RS232, 1 x RS485, 1 x DI, 1 x DO, 2.4G WIFI, eSIM (Optional)
R350-Outdoor -L-2E	2	4G(CAT-4), 2 x SIM, 1 x RS232, 1 x RS485, 1 x DI, 1 x DO, 2.4G WIFI, eSIM (Optional)
R350-Outdoor -L1-5E	5	4G(CAT-1), 2 x SIM, 1 x RS232, 1 x RS485, 1 x DI, 1 x DO, 2.4G WIFI, eSIM (Optional)
R350-Outdoor -L1-2E	2	4G(CAT-1), 2 x SIM, 1 x RS232, 1 x RS485, 1 x DI, 1 x DO, 2.4G WIFI, eSIM (Optional)

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