CIR752R-W

2-Port 100M DIN-rail Wi-Fi 4 4G Industrial Wireless Router



- Support 1 x 100M WAN port, 1 x 100M LAN port, 1 x RS232/485 serial port, 1 x 4G antenna port, 2 x 2.4GHz antenna ports, 1 x dual Nano SIM card slot
- Support 4G cellular wireless network and WAN port wired network as mutual backup, enabling wireless and wired terminal device networking
- Support AP, Client, or AP+Client wireless modes, functioning as a Wi-Fi hotspot, wireless client, or bridge to enable wireless terminal device access
- Support networking for serial terminal devices, converting protocols including UDP, TCP, Modbus, HTTPD, WebSocket, MQTT, OPC UA, IEC104, HJ212 and support virtual serial ports
- DC 9~36V input, reverse polarity protection
- High-strength aluminum alloy housing with IP30 protection rating
- Work in -40°C~+75°C harsh environment

Product Description

The CIR752R-W is a 2-port 100M Wi-Fi 4 DIN-rail industrial router specifically designed for industrial communication network applications. It supports simultaneous operation across multiple networks including LAN, WAN, WLAN, and 4G LTE, with intelligent switching for multi-network backup. This enables connectivity for serial, wireless, and wired terminal devices. This product features 1×100M WAN port, 1×100M LAN port, 1× RS232/485 serial port, 1 × 4G antenna interface, and 2 × 2.4GHz antenna interfaces. It supports 1× DC 9~36V power input and utilizes standard DIN rail mounting to meet diverse field networking requirements.

The CIR752R-W supports web-based configuration for multiple network management functions, including PPPoE dialing, DHCP server, 4G network, wireless settings, IP/MAC binding, static routing, firewall, VPN, serial-to-network conversion, network diagnostics, SNMP, LLDP, and remote device management. The system provides multi-level user management, supports local/remote log management, and enables scheduled reboots, configuration backup/restore, firmware upgrades, and factory reset. One-button reboot or factory reset is supported via physical buttons. The hardware employs high-standard industrial protection

design, utilizing premium industrial-grade components within a rugged, durable high-strength aluminum alloy enclosure. Featuring low power consumption and wide temperature operation (-40°C to +75°C), it passes stringent safety and EMC testing to meet demanding industrial applications. The product is widely applicable in industrial automation, integrated energy systems, smart cities, intelligent transportation, smart mining, and smart factories.

Product Features

- Support 4G cellular networks, Wi-Fi wireless networks, and wired WAN port connections, with multi-network backup capability
- WAN port supports DHCP protocol, static addresses, PPPoE dial-up, and other methods for external network connectivity, or functions as a LAN port for internal network access
- LAN port supports DHCP server functionality for centralized dynamic management and configuration of user IP addresses
- Support 4G cellular networks, compatible with 2G/3G, featuring tri-network compatibility, dual-SIM single-standby, and APN configuration
- Support link checking, periodically monitoring 4G network link status and performing link recovery
- WLAN supports AP, Client, or AP+Client modes, enabling wireless terminal access, wireless network connectivity, or bridging
- Support IPv4/IPv6 Ping, IPv4/IPv6 Traceroute, Nslookup, and packet capture for network diagnostics or fault analysis
- Firewall features include SYN-flood defense, port mapping, IP/MAC/domain address filtering, custom iptables rules, NAT translation,
- DMZ isolation, UPnP, IP/MAC rate limiting, and QoS-based upload/download speed restrictions.
- Logs record kernel, application, and network information at multiple severity levels, supporting local download, scheduled saving, and remote monitoring.
- Serial port supports UDP Client/Server/Multicast, TCP Client/Server, Modbus RTU Master/Slave, Modbus ASCII Master/Slave, Realcom MCP/CCP/MW, Pair Connection Master/Slave, Httpd Client, WebSocket Client, MQTT Client, OPC UA Server, IEC104 Server, HJ212 Client, Modbus TCP To MixCloud, and other serial-to-protocol conversion modes conversion modes, enabling serial-to-TCP, UDP, HTTPD, WebSocket, MQTT, Modbus RTU/ASCII-to-Modbus TCP, OPC UA, IEC104, HJ212, etc.
- Ethernet port supports Modbus TCP data collection and upload to MixCloud
- Support Dynamic DNS functionality, enabling remote device login and management via designated domain names
- Support VPN client and server for private network construction; client supports PPTP, L2TP, GRE, GRETAP, OpenVPN, and other tunneling protocols; server supports PPTP, L2TP, and IPSec protocols
- Support SNMPv1/v2c/v3 for information querying, modification, and troubleshooting via MIB, enabling

centralized management

- Support LLDP to obtain LLDP neighbor device information, monitor link status, and facilitate topology management and fault localization
- Support MixConnect and MixCloud platform management for remote device administration and on-site network status monitoring

Technical Specifications

Software	
Management	Support traffic statistics, operational status, network status, local address, and other status information Support static addresses, DHCP, and PPPoE external connections; support WAN/LAN mode Support DHCP server and IP/MAC binding Support 4G networks, dual SIM card management, APN, and link checking Support Wireless AP Mode, Client Mode, AP+Client Mode Support Static Routing, IPv6 Services Support Serial-to-Network Conversion, Dynamic DNS, SNMP, LLDP, Remote Device Management Support PPTP/L2TP/GRE/GRETAP/TUN/TAP Protocol VPN Clients Support PPTP/L2TP/IPSec Protocol VPN Servers
Firewall	Support SYN flood defense, IP dynamic spoofing, MSS throttling, inbound/outbound data control Support WAN/LAN port TCP/UDP port mapping Support IP/MAC/domain name filtering, iptables, NAT, DMZ, UPnP, IP/MAC/QoS rate limiting
System Management	Support IPv4/IPv6 Ping, IPv4/IPv6 Traceroute, Nslookup, network packet capture Support time zone, NTP client/server, management port, Crontab, remote/local logging Support user permission management, SSH access Support online reboot, scheduled reboot, configuration

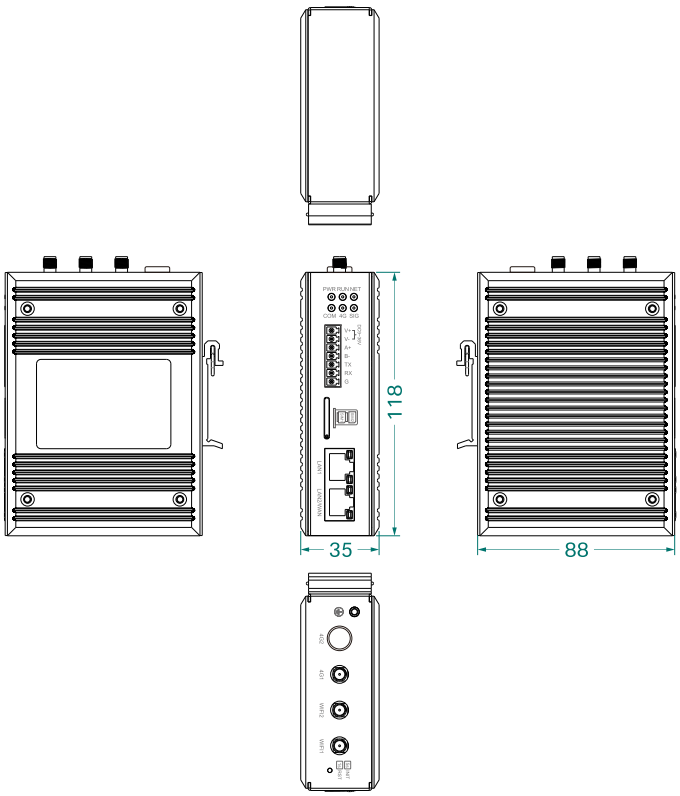
	backup/restore, firmware flashing, factory reset
4G Cellular Network	
Network Format	LTE-FDD, LTE-TDD, WCDMA, GSM/ EDGE
Working Frequency	LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/B39/B40/B41 WCDMA: B1/B5/B8 GSM/EDGE: B3/B8
Theoretical Transfer Rate	LTE-FDD: DL 150Mbps/ UL 50Mbps LTE-TDD: DL 130Mbps/ UL 30Mbps HSPA+: DL 21Mbps/ UL 5.76Mbps WCDMA: DL 384kbps/ UL 384kbps EDGE: DL 236.8kbps/ UL 236.8kbps GRPS: DL 85.6kbps/ UL 85.6kbps
TX Power	EGSM900: 33dBm±2dB DCS1800: 30dBm±2dB WCDMA: 24dBm+1/-3dB LTE FDD/TDD: 23dBm±2dB
RX Sensitivity	EGSM900: -109dBm DCS1800: -107dBm WCDMA: -109.4dBm(B1) / -109.7dBm(B5) / -110.2dBm(B8) LTE FDD: -98.1dBm(B1)/ -97.1dBm(B3)/ -98.9dBm(B5)/ -97.4dBm(B8) LTE TDD: -96.6dBm(B34)/ -96.7dBm(B38)/ -97.6dBm(B39)/ -97.4dBm(B40) / -95dBm(B41)
Wi-Fi	
Frequency Range	2.4GHz (2.412GHz~2.484GHz)
Data Rate	300Mbps
TX Power	802.11b: 17dBm~19dBm@11Mbps 802.11g: 15dBm~18dBm@54Mbps 802.11n: 15dBm~18dBm@MCS7 HT20/ 40
RX Sensitivity	802.11b: -91.5dBm~-87.5dBm@11Mbps (PER＜8%) 802.11g: -78dBm~-74dBm@54Mbps (PER＜10%)

Interface	
WAN Port	1×10/100Base-T(X) auto-sensing RJ45 port (Support LAN), support both the full-duplex mode and half-duplex mode, auto-MDI/MDIX
LAN Port	1×10/100Base-T(X) auto-sensing RJ45 port (Support WAN), support both the full-duplex mode and half-duplex mode, auto-MDI/MDIX
Serial Port	Port type: 1xRS232/485 Connection Method: 7-pin 3.81mm pitch terminal block, occupying 5 pins Baud rate: 300bps-230400bps Data bit: 5bit,6bit,7bit,8bit Stop bit: 1bit,2bit Parity bit: None, Odd, Even
Antenna Connector	3×SMA-K antenna connectors, one for 4G cellular antenna, two for 2.4G Wi-Fi antenna
SIM Card Slot	1×dual Nano SIM slot, dual card single standby
Status LEDs	Power indicator, Operation indicator, Network indicator, Serial port indicator, 4G indicator, Signal strength indicator, Ethernet port speed and connection/activity indicator
Power Supply	
Input Voltage	DC 9~36V
Power Consumption	＜3.5W@DC24V(full load)
Connection	7-pin terminal block with 3.81mm pitch, 2 pins reserved for power
Power protection	Reverse polarity protection
Physical Characteristics	
Dimensions	118×35×88 mm (DIN rail mounting clip excluded)
Installations	Easy installation on 35mm DIN rails
IP Code	IP30
Weight	0.37kg (antenna excluded)

Working Environment	
Operating Temp	-40°C ~+75°C
Storage Temp	-40°C ~+85°C
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-2 (ESD): Level 4 (contact discharge ±8kV, air discharge ±15kV) IEC 61000-4-5 (Surge): Level 4 (Power supply: common-mode ±4kV, differential-mode ±2kV; Network port: Common-mode ±6kV, Differential-mode ±2kV; Serial port: Common-mode ±4kV) IEC 61000-4-4 (EFT): Level 4 (Power supply: ±4kV; Network port, Serial port: ±2kV)

Dimensions

Unit: mm



Ordering Information

Standard Model	100M WAN Port	100M LAN Port	RS232/485	4G Antenna	2.4GHz Antenna	Input Voltage
CIR752R-W	1	1	1	1	2	DC 9~36V

Contact Us

COME-STAR COMMUNICATION(WUHAN) CO., LTD.

Address: Puneng Industrial Park, Fenghuang Garden 1st Road, East Lake High-Tech Development Zone, Wuhan, China.

Tel: +86-027-59257958

Mail: sales@come-star.com

Official site: www.come-star.com

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