

## CIR755R

### 2-Port 100M DIN Rail Industrial 4G Router



- 1×100M WAN/LAN combo port, 1×100M LAN port, 1×RS232/485, 1×4G antenna interface and 1×Nano SIM card slot
- Failover between 4G and WAN, ensure automatic switch to alternative backup connection, and realize the networking of wired terminal devices
- Support conversion between UDP, TCP, Modbus, HTTPD, WebSocket, MQTT and other protocols, support virtual serial port
- Support firewall, dynamic DNS, VPN, SNMP, LLDP, and remote device management
- Support DC9~36V power input and anti-reverse connection
- High-strength aluminum alloy housing, IP40 protection
- Work in -40°C~+75°C harsh industrial environment.

## Product Description

CIR755R is a 2-port 100M DIN rail industrial 4G router designed for industrial communication network applications. It supports multiple networks, including LAN, WAN, and 4G LTE, intelligently switches multiple networks for backup, and can connect serial ports and wired terminal devices to the Internet. This product provides multiple types of interfaces, including 1×100M WAN/LAN multiplexing port, 1×100M LAN port, 1×RS232/485 serial port, and 1×4G antenna. It supports 1×DC9~36V power input and adopts standard DIN rail installation to meet various needs.

The product supports WEB configuration of various network management functions, including PPPoE dial-up, DHCP server, 4G network, IP/MAC binding, static routing, firewall, VPN, serial port to network, network diagnosis, SNMP, LLDP, remote device management, and more. The system provides user management with different levels of permissions, supports local/remote log management, scheduled reboot, configuration backup and restore, firmware upgrades, and factory reset. It also supports one-click reset or factory reset via buttons.

The hardware adopts high-standard industrial protection design, with carefully selected industrial-grade components and a high-strength aluminum alloy housing, ensuring durability and robustness. It features low power consumption, wide temperature design, and fan-less heat dissipation, supporting an operating

temperature range of -40°C to +75°C. It has undergone rigorous safety and EMC testing to meet the demanding requirements of industrial environment applications. This product can be widely used in industrial automation, integrated energy, smart cities, intelligent transportation, smart mines, smart factories, and other fields.

## Features and Benefits

- Support port ingress and egress rate limit
- Support 4G cellular wireless network and WAN port wired network backup
- WAN port supports DHCP protocol, static address, PPPoE dial-up and other methods to connect to the external network, or as a LAN port to connect to the internal network
- LAN port supports DHCP server, centralized dynamic management and configuration of user IP addresses
- Support 4G cellular network, compatible with 3G, and support APN
- Support link check, periodic check of 4G network link status, and link recovery
- Support IPv4/IPv6 Ping, IPv4/IPv6 Traceroute, Nslookup, packet capture, network diagnosis or fault analysis
- Firewall supports SYN-flood defense, port mapping, IP/MAC/domain name address filtering, iptables command custom rules, NAT conversion, DMZ isolation zone, UPnP, IP/MAC speed limit, QoS limit upload/download rate and other functions
- Log information records kernel, application and network information at various levels, supports local download, timed saving and remote monitoring
- Serial port supports UDP, TCP Client/Server, UDP Multicast, Modbus RTU Master/Slave, Modbus ASCII Master/Slave, Realcom MCP/CCP/MW, Pair Connection Master/Slave, Httpd Client, WebSocket Client, MQTT and other serial port conversion modes, realizing serial port to Ethernet or Modbus RTU/ASCII protocol
- Support dynamic DNS function, remote login and management of devices through specified domain name
- Support VPN client and server to build a private network, the client supports PPTP, L2TP, GRE, GRE-TAP, OpenVPN and other tunnel protocols, the server supports PPTP, L2TP and IPSec and other tunnel protocols
- Support SNMPv1/v2c, information query, information modification and troubleshooting can be performed through MIB to achieve centralized management
- Support LLDP, obtain LLDP Neighbor device information, link status monitoring, convenient topology management and fault location

## Specifications

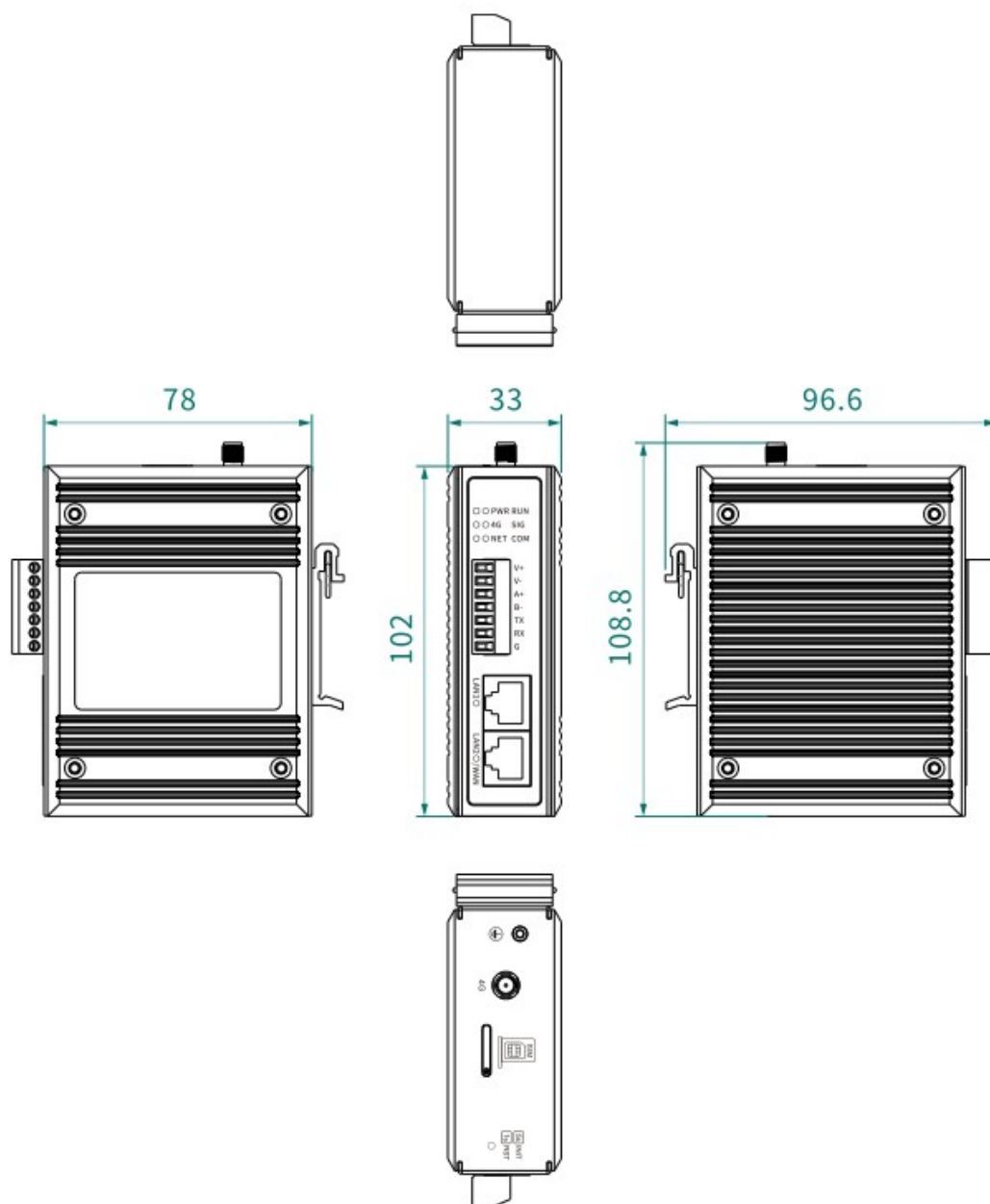
Software	
Network Management	<p>Support traffic statistics, running status, network status, local address and other status information</p> <p>Support static address, DHCP, PPPoE external network connection, supports WAN/LAN mode</p> <p>Support DHCP server, IP/MAC binding</p> <p>Support 4G network, APN, link check</p> <p>Support static routing</p> <p>Support serial port to network, dynamic DNS, SNMP, LLDP, remote device management</p> <p>Support PPTP/L2TP/GRE/GRETAP/TUN/TAP protocol VPN client</p> <p>Support PPTP/L2TP/IPSec protocol VPN server</p>
Firewalls	<p>Support SYN-flood defense, IP dynamic spoofing, MSS clamping, inbound/outbound data control</p> <p>Support WAN/LAN port TCP/UDP port mapping</p> <p>Support IP/MAC/domain filtering, iptables, NAT, DMZ, UPnP, IP/MAC/QoS speed limiting</p>
System Management	<p>Support IPv4/IPv6 Ping, IPv4/IPv6 Traceroute, Nslookup, packet capture</p> <p>Support time zone configuration, NTP client/server, management port settings, Crontab, remote/local logging</p> <p>Support user permission management, SSH access</p> <p>Support online reboot, scheduled reboot, configuration backup/restore, firmware flashing, factory reset</p>
4G Cellular Network	
Network Format	LTE-FDD, LTE-TDD, WCDMA
Working Frequency	<p>LTE-FDD: B1/3/5/8</p> <p>LTE-TDD: B34/38/39/40/41</p> <p>WCDMA: B1/5/8</p>
Theoretical Transfer Rate	<p>LTE-FDD: DL 150Mbps / UL 50Mbps</p> <p>LTE-TDD: DL 130Mbps / UL 30Mbps</p> <p>HSPA+: DL 21Mbp/ UL 5.76Mbp</p> <p>WCDMA: DL/ UL 384kbps</p>

TX Power	<p>LTE-FDD: 23dBm±2dB</p> <p>LTE-TDD: 23dBm±2dB</p> <p>WCDMA: 24dBm+1/-3dB</p>
RX Sensitivity	<p>LTE-FDD: -98.1dBm(B1)/ -97.1dBm(B3)/ -98.9dBm(B5)/ -97.4dBm(B8)</p> <p>LTE-TDD: -96.6dBm(B34)/ -96.7dBm(B38)/ -97.6dBm(B39)/ -97.4dBm(B40)/ -95dBm(B41)</p> <p>WCDMA: -109.4dBm(B1)/ -109.7dBm(B5)/ -110.2dBm(B8)</p>
<b>Interface</b>	
100M WAN	1×10/100Base-T(X) auto-sensing 100M RJ45 WAN Port (supports LAN mode), support full/half duplex, auto MDI/MDI-X
100M LAN	1×10/100Base-T(X) auto-sensing 100M RJ45 LAN port, support full/half duplex, auto MDI/MDI-X
Serial Port	<p>Serial port type: 1 RS232/485</p> <p>Connection method: 7-bit 3.81mm pitch terminal block, serial port occupies 5 bits</p> <p>Baud rate: 300bps~230400bps</p> <p>Data bit: 5bit, 6bit, 7bit, 8bit</p> <p>Stop bit: 1bit, 2bit</p> <p>Parity bit: NONE, ODD, EVEN</p>
Antenna Connector	1 x SMA-K (female, external thread, inner hole) antenna interface, used to connect to the 4G cellular antenna
SIM Card Slot	1 x Nano SIM card slo
Button	One-click restart or factory reset
Status LED	Power indicator, operation indicator, 4G indicator, signal indicator, network indicator, serial port indicator, copper port indicator
<b>Power Supply</b>	
Power Input	DC9V~36V
Power Consumption	< 5W@DC24V(Full Load)
Connection	3.81mm pitch, 7-position terminal block; 2 positions allocated for power input

Protection	Anti-reverse connection
<b>Physical Characteristics</b>	
Dimensions	102 × 33 × 78 mm (DIN rail mounting clip and connector excluded)
Installations	35mm standard DIN rail installation
Weigh	0.27kg (Excluding antenna)
<b>Working Environment</b>	
Operating Temp	-40°C~+75°C
Storage Temp	-40°C~+85°C
Relative Humidity	5%~95% (non-condensing)
<b>Industry Standard</b>	
EMC	IEC 61000-4-2 (ESD): Level 4 (Contact discharge ±8kV, Air discharge ±15kV) IEC 61000-4-5 (Surge): Level 3 (Power supply: Common mode ±2kV, Differential mode ±1kV; Ethernet port: Common mode ±6kV, Differential mode ±2kV, RS485: Common mode ±4kV, Differential mode ±2kV) IEC 61000-4-4 (EFT): Level 4 (Power supply: ±4kV; Ethernet port: ±2kV)

## Dimensions

Unit: mm



## Ordering Information

Standard Model	100M WAN	100M LAN	RS232/485	4G Antenna	Input Voltage
CIR755R	1	1	1	1	DC9~36V



## Contact Us

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