CIR752R-W

2 Ethernet Ports DIN-rail 4G Industrial Wireless Router

- 1×10/100Base-T(X) WAN port, 1×10/100Base-T(X) LAN port, 1×RS232/485 serial port, 1×4G antenna interface and 2×2.4G antenna interfaces, 1× dual nano SIM card slot
- Link backup and mutual backup of wired, 4G cellular networks
- Support AP, Client and AP+Client wireless modes, working as Wi-Fi hotpot, wireless client or Ethernet bridge
- Support UDP, TCP, Modbus, HTTPD, WebSocket, MQTT protocols, support virtual com port
- DC 9~36V input, reverse polarity protection
- High strength aluminum alloy shell, IP40 protection grade
- Fanless design, case heat dissipation,
- Work in -40℃ ~ + 75℃ harsh environment

Product Description

CIR752R-W is a 2-port fast Ethernet DIN-rail mounted industrial 4G wireless router developed for industrial network applications, supporting LAN, WAN, WLAN, 4G LTE and other multi-network online, intelligent switching of multi-network backups, and networking of serial, wireless, and wired terminal devices. The industrial router provides 1×10/100Base-T(X) WAN port, 1×10/100Base-T(X) LAN port, 1×RS232/485 serial port, 1×4G antenna interface and 2×2.4G antenna interfaces. The DIN-rail mountable router, with 1 DC 9~36V power input, can meet the needs of a variety of network scenarios.

The industrial 4G router supports WEB configuration of a variety of functions, such as PPPoE dialing, DHCP server, 4G network, wireless settings, IP/MAC binding, static routing, firewalls, VPN, serial to Ethernet, network diagnostics, SNMP, LLDP, cloud services, etc.; Its system provides user permission management, supports local/remote log management, scheduled reboot, configuration backup and recovery, firmware upgrade, factory reset. The router adopts high-standard industrial protection design, selects industrial-grade components, and uses high-strength aluminum alloy casing to make it solid and durable. It features low power consumption, -40 ℃ ~ +75 ℃ wide temperature durability, fanless metal case cooling. It has passed strict safety regulations and EMC tests to meet the requirements of severe industrial environment applications, so that it can be widely used in industrial projects.

Product Features

- Support 4G cellular wireless network, Wi-Fi wireless network and WAN port wired network, support multi-network backup
- WAN port supports DHCP, static IP addresses, PPPoE dial-up, and works as LAN port
- LAN port supports DHCP server, user IP addresses can be dynamically managed and configured in a centralized way
- Support 4G LTE, backward compatible with 2G/3G services, support dual card single standby, APN
- Support link detection and recovery
- WLAN supports AP, Client or AP+Client modes, which can realize wireless terminal access, wireless network access or bridging.
- Support IPv4/IPv6 Ping, IPv4/IPv6 Traceroute, Nslookup, packet capture
- Support defense against SYN-flood attack, port mapping, IP/MAC/DNS filter, iptables command custom rules, DMZ(Demilitarized Zone), UPnP, bandwidth limit per MAC/IP, QoS traffic throttling
- Logs contain information about the kernel messages, applications and network, support download, autosave, remote monitor
- Serial port supports UDP, UDP Multicast, Modbus RTU Master/Slave, Modbus ASCII Master/Slave, RealCOM_MCP/CCP/MW, Pair Connection Master/Slave, Httpd Client, WebSocket Client, MQTT to enable conversion from serial to Ethernet or Modbus RTU/ASCII
- Support peanut shell intranet penetration and dynamic domain name resolution DDNS
- Support dynamic DNS, user can login and manage device remotely by specifying the domain name
- Support VPN client and server to build a private network. The client supports tunnel protocols such as PPTP, L2TP, IPSec, OpenVPN, GRE, and SSTP. The server supports protocols such as PPTP, L2TP, and IPSec
- Support SNMPv1/v2c, use MIB browser to view, modify, and troubleshoot
- Support LLDP, obtain the LLDP neighbor information, monitor link status, maintain topology and locate fault
- Support COME-STAR cloud platform management to realize remote management of equipment and monitoring of on-site network status

Technical Specifications

Software	
Management	Support traffic statistics, running status, traffic statistics view Support static IP address, DHCP, PPPoE, WAN/LAN mode Support DHCP server, IP/MAC binding Support 4G LTE, dual card management, APN, link detection Support wireless AP mode, Client mode, AP+Client mode Support static routing Support serial to Ethernet conversion, peanut shell intranet penetration, dynamic DNS, SNMP, LLDP, cloud service Support PPTP/L2TP/GRE/TUN/TAP protocol VPN client Support PPTP/L2TP/IPSec protocol VPN server
Firewall	Support defense against SYN Flood attack, IP dynamic camouflage, MSS clamping, Inbound/outbound data control TCP/UDP port mirroring over WAN/LAN IP/MAC/DNS filtering, iptables, DMZ, UPnP, IP/MAC/QoS speed limit
System Management	IPv4/IPv6 Ping, IPv4/IPv6 Traceroute, Nslookup, packet capture Timezone, NTP client/server, port management, Crontab, remote/local logging User permission management, SSH access Online restart, scheduled restart, 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

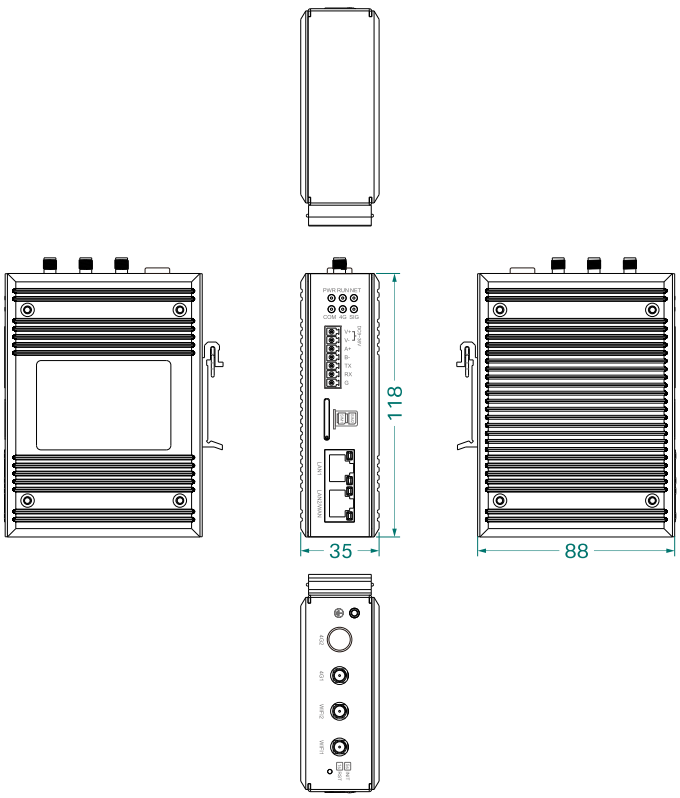
Theoretical Transfer Rate	LTE-FDD: DL 150Mbps/ UL 50Mbps LTE-TDD: DL 130Mbps/ UL 30Mbps HSPA+: DL 21Mbps/ UL 5.76Mbps WCDMA: DL 384kbps/ UL 384kbps EDGE: DL 236.8kbps/ UL 236.8kbps GRPS: DL 85.6kbps/ UL 85.6kbps
TX Power	EGSM900: 33dBm±2dB DCS1800: 30dBm±2dB WCDMA: 24dBm+1/-3dB LTE FDD/TDD: 23dBm±2dB
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 Connect: 3.81mm pitch 7 Way Pluggable Terminal Block 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 slots, dual card single standby
Status LEDs	Power, running, Internet, serial port connection, 4G LTE, signal strength, copper port connection
Power Supply	
Input Voltage	DC 9~36V
Power Consumption	＜3.5W@DC24V(full load)
Connection	3.81mm pitch 7 PIN terminal blocks, power occupies 2 way
Reverse Polarity Protection	Support
Physical Characteristics	
Dimensions	118×35×88 mm (DIN rail mounting clip excluded)
Installations	Easy installation on 35mm DIN rails
IP Code	IP40
Weight	0.37kg (antenna excluded)
Working Environment	
Operating Temp	-40℃~+75℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industry Standard	

EMC	IEC 61000-4-2(ESD): Level 4 IEC 61000-4-5(Surge): Level 4 IEC 61000-4-4(EFT): Level 4
Certification	CE, FCC, RoHS

Dimensions

Unit: mm



Ordering Information

Standard Model	10/100M WAN Port	10/100M LAN Port	RS232/485	4G Antenna	2.4GHz Antenna	Input Voltage
CIR752R-W	1	1	1	1	2	DC 9~36V

Contact Us

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