MIR675-W Series

4G Wall-Mount Industrial Wireless Router

- Support 1 100M WAN port, 4 100M LAN ports, 1 RS232/485 serial port, 1/2 4G antenna interface, 2 2.4GHz antenna interfaces, 1/2 SIM card slot and 1 USB interface
- Support mutual backup of 4G cellular wireless network and WAN port wired network, enabling wireless and wired terminal equipment networking
- Support wireless modes such as AP, Client or AP+Client, and can be used as a Wi-Fi hotspot, wireless client or bridge to achieve wireless terminal device access
- Support serial port terminal device networking, can convert UDP, TCP, Modbus, HTTPD, WebSocket, MQTT and other protocols, and supports virtual serial port
- Support industrial-grade DC power supply DC9~36V input, anti-reverse connection
- High-strength metal casing, IP40 protection level, fanless casing for heat dissipation, work in -20℃~+70℃

Product Description

The MIR675-W series is a 5*100M ports wall-mount 4G wireless industrial router specially designed and developed for industrial communication network applications. It supports multiple online networks such as LAN, WAN, WLAN, and 4G LTE. It can intelligently switch multiple network backups and realize serial port, Networking of wireless and wired terminal equipment. This series of products provide 1*100M WAN port, 4*100M LAN ports, 1*RS232/485 serial port, 1/2*4G antenna interface, 2*2.4GHz antenna interfaces and 1 USB and other types of interfaces, supporting 1*DC9~36V power input, wall-mount installation method, meeting the needs of various network sites. MIR675-WB supports dual 4G module hot backup, full network connectivity.

The product supports WEB configuration of a variety of network management functions, such as PPPoE dial-up, DHCP server, 4G network, wireless settings, IP/MAC binding, static routing, firewall, VPN, serial port to network, network diagnosis, SNMP, LLDP, cloud services, etc.; The system provides user management with different permissions, supports local/remote log management, and supports scheduled restart, configuration backup and recovery, firmware upgrade, and factory settings restoration. Support one-click restart or factory reset. The hardware adopts high-standard industrial protection design, with selected industrial-grade components and high-strength metal casing, which is sturdy and durable; low power consumption, wide temperature design, fanless shell heat dissipation, supports -20℃~+70℃ operating temperature, and has passed strict Safety and EMC testing to meet the application requirements of harsh industrial environments. Products can be widely used in industrial automation, integrated energy, smart cities, smart transportation, smart mines, smart factories and other fields.

Features and Benefits

- Support 4G cellular wireless network, Wi-Fi wireless network and WAN port wired network, and support multi-network backup
- The WAN port supports DHCP protocol, static address, PPPoE dial-up, etc. to connect to the external network, or can be used as a LAN port to connect to the intranet
- The LAN port supports DHCP server to centrally dynamically manage and configure user IP addresses.
- Support 4G cellular network, compatible with 2G/3G, support three networks, dual SIM dual standby (some models), APN
- Support link check, periodically check 4G network link status, and perform link 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, and can perform network diagnosis or fault analysis
- The firewall supports SYN-flood defense, port mapping, IP/MAC/domain name filtering, iptables command custom rules, DMZ isolation zone, UPnP, IP/MAC speed limit, QoS limit upload/download rate and other functions
- Log information records multiple levels of kernel, application and network information, and support local downloading, scheduled saving, and remote monitoring
- The 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. , realize serial port to Ethernet or Modbus RTU/ASCII protocol
- Support Peanut Shell intranet penetration, and can use Peanut Shell dynamic domain name to remotely log in and manage devices
- Support dynamic DNS function, allowing remote login and management of devices through designated domain names
- Support VPN client and server to build a private network. The client supports tunnel protocols such as PPTP, L2TP, IPSec, OpenVPN, and GRE. The server supports protocols such as PPTP, L2TP, and IPSec
- Support RTC hardware clock and NTP network automatic time adjustment
- Support SNMPv1/v2c, information query, information modification and troubleshooting can be carried out through MIB to achieve centralized management
- Support LLDP, obtains LLDP neighbor device information, and monitors link status to facilitate topology management and fault location.
- Support Maiwe cloud platform management to realize remote management of equipment and monitoring of on-site network status

Specification

Software	
Network Management Function	Support traffic statistics, running status, network status, local address and other status information Support static address, DHCP, PPPoE external network connection, support WAN/LAN mode Support DHCP server, IP/MAC binding Support 4G network, dual-SIM management (some models), APN, link check Support wireless AP mode, Client mode, AP+Client mode Support static routing Support serial port to network, peanut shell intranet penetration, dynamic DNS, SNMP, LLDP, cloud services Support PPTP/L2TP/GRE/TUN/TAP protocol VPN client Support PPTP/L2TP/IPSec protocol VPN server
Firewalls	Support SYN-flood defense, IP dynamic camouflage, MSS clamping, inbound/outbound data control Support WAN/LAN port TCP/UDP port mapping Support IP/MAC/domain name filtering, scheduled tasks, DMZ, UPnP, IP/MAC/QoS rate limiting
System Management	Support IPv4/IPv6 Ping, IPv4/IPv6 Traceroute, Nslookup, and capture network packets Support time zone, NTP client/server, scheduled tasks, remote/local logs Support user rights management, SSH access Support online restart, scheduled restart, configuration backup/restore, firmware flash, and factory reset
4G Cellular Network	
Network Format	LTE-FDD, LTE-TDD, WCDMA, TD-SCDMA, CDMA, GSM
Working Frequency	LTE FDD: B1/B3/B5/B8 LTE TDD: B38/B39/B40/B41 WCDMA: B1/B8 TD-SCDMA: B34/B39 CDMA: BC0 GSM: 900/1800MHz
Theoretical Transfer Rate	FDD-LTE: DL 150Mbps/UL 50Mbps TDD-LTE: DL 130Mbps/UL 35Mbps WCDMA: DL 42Mbps/UL 5.76Mbps TD-SCDMA: DLMax4.2Mbps/ UL 2.2Mbps CDMA2000: DL 3.1Mbps/ UL 1.8Mbps CDMA: DL 384Kbps/ UL 128Kbps GSM: DL 384Kbps/ UL 128Kbps
TX Power	LTE FDD: 23dBm±2dB LTE TDD: 23dBm±2dB WCDMA: 24dBm＋1/-3dB TD-SCDMA: 24dBm＋1/-3dB CDMA: 24dBm+2/-1dB

Specification

	DCS1800(8-PSK): 26dBm±3dB GSM900(8-PSK): 27dBm±3dB DCS1800: 30dBm±2dB GSM900: 33dBm±2dB	
RX Sensitivity	LTE FDD (10M): -99dBm(B1)/ -98dBm(B3)/ -98dBm(B5)/ -99dBm(B8) LTE TDD (10M): -99dBm(B38)/ -98dBm(B39)/ -99dBm(B40) / -98dBm(B41) WCDMA:-110dBm(B1/B8) TD–SCDMA: -110dBm(B34/B39) CDMA: -108dBm(BC0) DCS1800: -109dBm EGSM900: -109dBm	
Interface	**MIR675-W**	**MIR675-WB**
100M WAN	1*10/100Base-T(X) auto-sensing 100M RJ45 WAN port (support LAN mode), support full/half duplex, auto MDI/MDI-X	
100M LAN	4*10/100Base-T(X) auto-sensing100M RJ45 LAN port, support full/half duplex, auto MDI/MDI-X	
Serial Port	Serial port type: 1*RS232/485 Connection method: 5-pin 5.08mm pitch terminal block Baud rate: 300bps-230400bps Data bits: 5bit, 6bit, 7bit, 8bit Stop bit: 1bit, 2bit Check digit: None, Odd, Even	
Wi-Fi Antenna Interface	2*2.4G Wi-Fi antenna interface, using SMA-K (external thread and internal hole), supporting 802.11b/g/n	
4G Antenna Interface	1*4G cellular antenna interface, using SMA-K (external thread internal hole)	2*4G cellular antenna interfaces, using SMA-K (external thread internal hole)
SIM Card Slot	1*standard SIM card slot (1.8V/3V), Support 4G/3G/2G	2*standard SIM card slots (1.8V/3V), dual SIM, dual standby, dual communication, Support 4G/3G/2G
USB	1 Type-A USB2.0 interface, expandable storage	
Button	One click restart or factory reset	
Status LEDs	Power indicator, running indicator, serial port indicator, 4G indicator, signal indicator, copper port speed and connection/activity indicator	
Power Supply		
Power Input	DC 9~36V, anti-reverse connection	
Power Consumption(Full Load)	MIR675-W: <2.2W@DC12V MIR675-WB: <2.7W@DC12V	
Connection	2-pin 5.08mm pitch terminal block or Φ2.5mm DC round head	

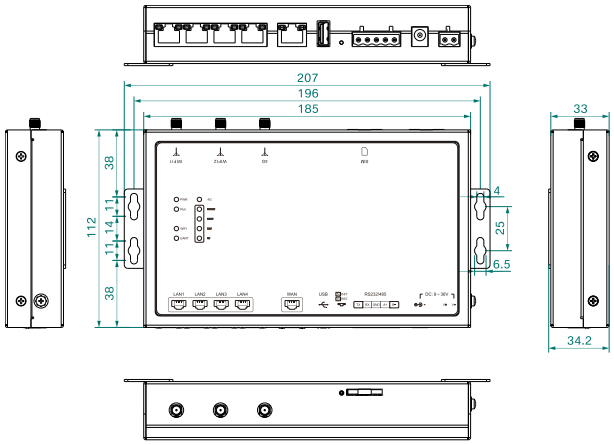
Specification

Physical Characteristics	
Dimensions	207×112×34.2 mm (mounting brackets included)
Installations	Wall mount
IP Code	IP40
Working Environment	
Operating Temp	-20℃~+70℃
Storage Temp	-40℃~+85℃
Relative Humidity	5%~95% (non-condensing)
Industry Standard	
EMC	IEC 61000-4-2 (ESD): Contact discharge ±6kV, air discharge ±15kV IEC 61000-4-5 (Surge): Power supply: common mode ±4kV, differential mode ±2kV; RS485: common mode ±4kV, differential mode ±2kV; Network port: common mode ±6kV, differential mode ±2kV
Certification	CE, FCC, RoHS

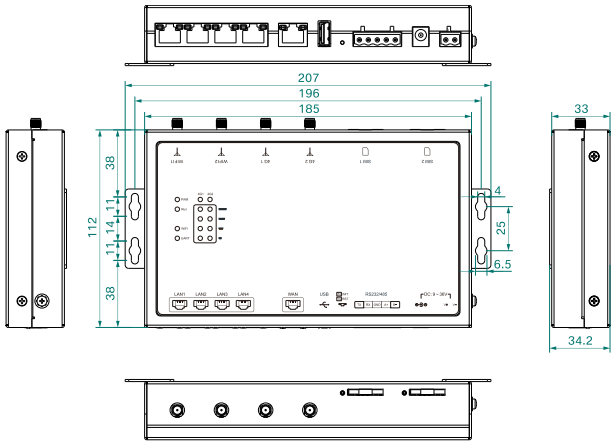
Dimensions

Unit: mm

MIR675-W



MIR675-WB



Ordering Information

Standard Model	100M WAN	100M LAN	RS232/485	4G Antenna	2.4GHz Antenna	Input Voltage
MIR675-W	1	4	1	1	2	DC9~36V
MIR675-WB	1	4	1	2	2	

Contact Us

Wuhan Maiwe Communication Co., Ltd

Address: No.52 Liufang Avenue, East lake High-tech Development Zone, Wuhan, China.

Tel: 027 8717 0217

Mail: enquiry@maiwe.com

Official site: www.maiwe.com