

## MIR675-W

### DIN RAIL 4G Industrial Wireless Router

#### Product description

MIR655R-W series industrial wireless router is a new generation of 4G router specially designed and developed for industrial communication network applications. This series of products has rich network connection types, supports transparent data transmission from RS485 to the network, supports 4 wired LAN ports, 1 wired WAN port and 1 WLAN wireless local area network. At the same time, it also supports wired and wireless multi-network online at the same time, multi-network intelligent switching backup function, etc., making industrial communication smoother, more reliable and faster. This product adopts the openwrt open architecture, supports users' secondary development, and meets customers' needs for continuous innovation to increase value-added applications.



## Features:

- Support 4 wired LAN ports, 1 wired WAN port, 1 WLAN wireless LAN port, and one serial port
- All wired network ports support 10/100Mbps rate
- Support VPN virtual private network
- The power supply supports DC power supply, terminal power supply, wide voltage power supply, and anti-reverse connection design
- Support NTP, built-in RTC, internal and external hardware and software watchdog design, to ensure the stability of the system
- Support wired and wireless multi-network online at the same time, multi-network intelligent switching backup function
- Support transparent data transmission from RS485 to the network
- Support Web multi-platform management configuration mode
- Support APN automatic network inspection, 2/3/4G standard automatic switching, SIM card information display, support APN private network card; support wired and wireless multi-network online at the same time, multi-network intelligent switching backup function
- Support static routing, PPPoE, DHCP, static IP function
- Support firewall, NAT, DMZ host, black and white list of access control, IP speed limit, MAC speed limit
- Support QoS intelligent traffic speed limit
- Support NTP network automatic time adjustment
- Support operator private network APN
- Support port mapping function
- Support immediate restart and scheduled restart functions

## Product specifications

### Wired Ethernet Port

Number of antennas	3
Antenna interface	SMA
SIM card	NANO SIM
Number of SIM cards	2
LAN port	4 x 10/100Mbps self-adaptive Ethernet ports, support MDI/MDIX
WAN port	1 x 10/100Mbps adaptive Ethernet port, support MDI/MDIX
Isolation protection	1.5kV isolation protection

### Serial Port

Serial port (5Pin terminals)	RS485
Rate	300~230400bps

### USB Port

Supported Protocol	USB 2.0
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### WIFI parameters

Frequency	Frequency range: 2412MHz---2484MHz
Transmit power	IEEE802.11n:15-18dBm@HT20/40MCS7 IEEE802.11g:15-18dBm@54MHz IEEE802.11b:17-19dBm@11MHz
Receiving sensitivity	802.11b:-91.5dBm~-87.5dBm@11Mbps (PER<8%) 802.11g:-78dBm~-74dBm@54Mbps (PER<10%)

### Network support

Network format	3G/4G
Working frequency	LTE FDD: B1/3/7/8/20/28A LTE TDD: B38/40/41 WCDMA: B1/8 GSM/EDGE: B3/8
Theoretical transfer rate	FDD-LTE:DL 150Mbps/UL 50Mbps TDD-LTE:DL 130Mbps/UL 30Mbps HSPA+:DL 42Mbps/UL 5.76Mbps WCDMA:DL 384Kbps/UL 384Kbps EDGE:DL 296Kbps/UL 236.8Kbps GPRS:DL 107Kbps/UL 85.6Kbps

Transmit power	<p>33 dBm <math>\pm</math>2 dB@GSM850/EGSM900</p> <p>30 dBm <math>\pm</math>2 dB@DCS1800/PCS1900</p> <p>27 dBm <math>\pm</math>3 dB@GSM850/EGSM900 (8-PSK)</p> <p>26 dBm <math>\pm</math>3 dB@DCS1800/PCS1900 (8-PSK)</p> <p>24 dBm + 1/-3 dB@WCDMA: B1/8</p> <p>23 dBm <math>\pm</math>2 dB@LTE FDD:B1/3/7/8 /20/28A</p> <p>23 dBm <math>\pm</math>2 dB@LTE TDD: B38/40/41</p>
Receiving sensitivity	<p>-109.0 dBm@EGSM900</p> <p>-109.0 dBm@DCS1800</p> <p>-111.0 dBm@WCDMA B1</p> <p>-111.0 dBm@WCDMA B8</p> <p>-101.0dBm@LTE-FDD B1 (10 MHz)</p> <p>-99.5 dBm@LTE-FDD B3 (10 MHz)</p> <p>-99.5 dBm@LTE-FDD B7 (10 MHz)</p> <p>-100 dBm@LTE-FDD B8 (10 MHz)</p> <p>-101.5 dBm@LTE-FDD B20 (10 MHz)</p> <p>-101 dBm@LTE-FDD B28A (10 MHz)</p> <p>-98.5 dBm@LTE-TDD B38 (10 MHz)</p> <p>-99.1 dBm@LTE-TDD B40 (10 MHz)</p> <p>-98.0 dBm@LTE-TDD B41 (10 MHz)</p>
CDMA2000	download rate of 3.1 Mbps; upload rate of 1.8 Mbps
CDMA	download rate of 384 kbps; upload rate of 128 kbps
GSM	download rate of 384 kbps; upload rate of 128 kbps

## Software

software	<p>Support DNS, support operator private network APN</p> <p>Wi-Fi signal supports WPA/WPA2, WEP and other encryption methods</p> <p>Support port mapping function, traffic speed limit function, support QoS</p> <p>Support serial port to network transparent transmission, DHCP, static routing, PPPoE, static IP function</p> <p>Support transmission protocols such as TCP Server/TCP Client/UDP Server/UDP Client</p> <p>Network diagnosis function: support Ping, Traceroute and Tcpdump (network capture tool), etc.</p> <p>Supports Web upgrade, etc., supports local system log, remote log, local log timed storage, etc. Supports wired and wireless multi-network online at the same time, supports links, wired and wireless backup, etc. Automatic detection of network disconnection, automatic restart when dialing fails, one-key restore factory default configuration</p> <p>Support immediate restart, scheduled restart, dynamic DNS domain name mapping, peanut shell intranet penetration function</p> <p>Support VPN Client, VPN Server, SNMP, LLDP protocol and network management platform</p>
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## Temperature

Working Temp	-40°C~ +70°C
Storage Temp	-40°C~ +85°C

## Humidity

Working Humidity	10%~90%
Storage Humidity	5%~95%

## Dimension

Size	140×35×100mm(L*W*H)
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## Power Supply

Working Voltage	DC9~36V
Working Current	<7W@24V

## Warranty

Warranty period	5 years warranty
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Certification	CE, FCC, RoHS
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## Ordering information

MIR655R-W-EUX	Support dual SIM card , support China Mobile/Unicom/Telecom 4G, China Unicom 3G, China Mobile/Unicom 2G (European version)
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