

IWMR-3002

Industrial Multifunction VPN Router w/up to 2x WiFi 11ac + up to 2 LTE 4G + 2/4 serial ports + 2 Gigabit Ethernet (incl.1 PD) w/Load Balancing**, TWCC**, VPN, Protocol Gateway, Storage**; 24V input

- Up to 2 concurrent WIFI 11ac and redundancy(1L-2AC model)
- Up to 2 concurrent modem for 3G/4G LTE Link & GPS(2L-1AC model/4 SIMs)
- Optional TWCC**(Train Wireless Carriage Coupling) for auto wireless coupling
- Built-in 2 Gigabit Ethernet ports incl. 1 PD port (1LAN+1WAN or 2LAN)
- Dual radio for 802.11ac/a/b/g/n with concurrent 5GHz & 5GHz bands up to 2.6GMbps Wi-Fi bandwidth(2AC model)
- MIMO technology 3T3R; SMA type up to 6 external antenna
- Unlimited concurrent WIFI users
- Fast roaming<50ms**, 802.11r standard
- Supports AP/Bridge /Client modes
- 4S model Air teaming** for Wi-Fi high-sustainability and aggregated bandwid
- VPN router for Multi-site VPN, OpenVPN, L2TP, IPSec, PPTP**
- Load Balancing** support 8 mechanism
- Support NAT and Firewall
- Support Modbus / DNP3** gateway
- Support 2/4 RS422/485 ports with 2.5KV isolation or 2/4x RS232 ports
- Wide input range from 9V to 60VDC for vehicle, station and process automation applications
- Wi-Fi & LTE graphic signal strength & TX/RX rate display
- Optional storage microSD** for storage backup or multi-media content suit with load-balancing
- Editable login page of captive portal for hot-spot application
- USB port to backup, restore the configuration file and upgrade firmware; Dual image firmware*























OVERVIEW

Lantech IWMR-3002 series is a next generation industrial multi-function VPN router w/up to 2x 802.3ac Wi-Fi + up to 2x LTE modem + 2x Gigabit Ethernet(1 PD) + 2 or 4 serial ports that supports advanced function of VPN,

Load-balancing**(Basic & Full Package), TWCC**, Protocol gateway(Modbus,DNP3**), Storage**, Wi-Fi roaming** and LTE quad SIM fail-over for industrial applications. The dual core CPU with 1.6GHz + 256M flash enables the router to multi-task smoothly.

Optional TWCC** (Train Wireless Carriage Coupling) for auto coupling

IWMR-3002 series supports optional TWCC** (Train Wireless Carriage Coupling) that enables auto wireless coupling to reconnect APs.

Dual concurrent LTE design 4G/3G for load-balancing

With dual LTE module design (2L model), 4 SIM card slots, TMR-5002 can allow auto-swap, failover & failback between multiple service providers for real non-stop connection. With concurrent LTE modules, it can also allocate bandwidth by

"Load Balancing** with 8 schemes between multiple WANs.

With one mobile LTE module, 2 SIM card slots, IWMR-3002-1L-2AC provides redundant link between two service providers.

Both GPS and Russian GLONASS systems are supported.

IEEE 802.11ac dual band radio up to 2.6GMbps bandwidth

With IEEE 802.11ac capability, IWMR-3002 can operate either 5GHz or 2.4GHz bands, offering the maximum speed of 2.6GMbps bandwidth (1.3GMbps per 1AC). It is also compatible with 802.11g/n that can work with 2.4GHz for longer range transmission.

The Wi-Fi 11ac supports AP/BRIDGE/AP Client modes can be diverse for most of wireless application. Working with load-balancing** "Priority" mode, the AP client can enable router to transmit on Wi-Fi with first priority.

Air teaming** for wireless high-sustainability and



aggregated bandwidth

The innovative Air-teaming protection can combines multiple wireless links to achieve both high-sustainability and aggregated bandwidth. High sustainability can keep the network traffic alive even one link is down or severely interfered. Aggregated bandwidth can bind two link channels to provide the maximum throughput.

MIMO technology with 3T3R and SMA type connectors
Lantech IWMR-3002 series adapts MIMO technology with
smart antenna transmission and reception for 3T3R. With six
external detachable omni connectors and optional antennas,
IWMR-3002 can have better Wi-Fi coverage. It can support

Optional 802.11r fast roaming < 50ms**

unlimited concurrent WIFI users.

IWMR-3002 support fast roaming < 50ms** (optional) in coordination with Lantech Wireless Controller to allow encryption keys to be stored on all of the APs in a network. Client mode supports PMK** Caching and pre-authentication (move to roaming section).

Wireless WMM QoS

IWMR-3002 supports 802.11e standard which defines a set of Quality of Service for wireless LAN applications as well as WMM (Wi-Fi multimedia)

Advanced security & 16 SSIDs

The security support standards including 64/128bits WEP, WPA/WPA2 PSK (TKIP*, AES), 802.1x** ensures the best security and active defense against security treads. Lantech IWMR-3002 support up to 16 SSIDs, each SSID has its independent security and encryption.

Load Balancing** with 8 mechanism for multi-WANs (premium license pack)

IWMR-3002 supports Load Balancing** for LTE/WAN (client mode) connections. There are eight schemes for Load Balancing** function:

| Pack | Algorithm | Description |
|---|---|---|
| Standard | Fixed | Manually route by traffic type through fixed WAN link. |
| Basic Package | Failover Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link fail occurs. Once failover will not failback until link loss. | |
| | Priority | Routes connections through preferred WAN link as primary while others follow by. Ex. Wi-Fi client>LTE>others |
| Weighted Round-Robin | | Evenly distribute the traffic over all working WAN links in circular order according to the specified weights. |
| | Custom Route | Routing through the selected WAN for each specific traffic, ex: TCP/UDP port number and IP address. |
| Full Package (incl. basic package) | Sticky Session* | Binding all connections in an application session to particular WAN link to ensure all connections in the session are |

| | routed to the same WAN link , that is suitable for security services like online payment etc. |
|-------------------|--|
| Smallest Load* | Routes connections through the WAN link with highest free bandwidth ratio. The ratio = 1 - (traffic load / the capability of a WAN link). The traffic load could be defined by downstream, upstream or total traffic |
| Fastest* | Routes connections through the WAN link with lowest latency time. |

2 or 4 port serial connection, Modbus / DNP3** gateway

It builds in 2 or 4 port serial connection for RS232, RS422, 485 in which RS422/485 has 2.5KV isolation protection.

The built-in Modbus gateway can convert Modbus RTU/ASCII to Modbus TCP for device control.

It also can support optional DNP3** gateway over serial ports

VPN and firewall

Besides traditional VPN peer to peer tunneling, IWMR-3002 support latest Multi-Site VPN function that is an efficient way for mesh tunneling. The registration is under cloud service and encrypted by SSH makes the connection easy and safe.

It supports Multi-Site VPN, Open VPN, L2TP, IPsec and PPTP** for various VPN applications.

The built-in Layer-4 firewall includes DoS**, IP address filter / Mac address filter* / TCP/UDP port number

DIDO** for alarm & email** notice; Event log; Remote Web/SMS** control

2 sets of optional DIDO function can support additional high/low physical contact for designate applications besides Port / Power events, for example, DIDO function can trigger alarm if the router was moved or stolen. In case of events, the IWMR-3002 will immediately send email** and trap.

When the router is at remote area with limited access, Web/SMS** control can help to get router status or remotely reboot.

Wide range input voltage from 9V-60VDC; Built-in 2 port Gigabit Ethernet incl. 1PD port

The IWMR-3002 is able to work from 9VDC to 60VDC that is particular good for vehicle, rail train, depot etc. application.

Two port Gigabit Ethernet including 1 PD port can be supported as 1LAN+1WAN or 2LAN models.

Graphic Wi-Fi & LTE signal strength and TX/RX rate display

The graphic Wi-Fi & LTE signal strength and TX/RX rate display shows connection status at a glance

USB port for back up, restore configuration and upgrade firmware; Dual image firmware*

The built-in USB port can upload/download the firmware through USB dongle for router replacement.

It supports dual-image firmware* to choose which one to start.



Cloud/Host based InstaView**/InstaAir** software for router/fleet management and monitoring

Lantech InstaView** can offer fixed location router central management, configuration, and monitoring via secured Cloud or Host server. InstaAir** can offer fleet router management including the GPS tracking, signal strength, remote configure/upgrade, monitoring/alerting and report function

Optional USB to microSD** for storage backup or multimedia resources

The optional internal USB to microSD** can have data backup or pre-store the multimedia resources for content application. User can designate the route via load-balancing** scheme to upload/download the data per request.

Editable login page of captive portal

The IWMR-3002 supports editable captive portal function that allows administrator to force end-users redirect to authentication page.

Ruggedized industrial design and FCC*, CE* & E-marking** certificate

The IWMR-3002 is designed to meet with outdoor network environment with IP 30 housing. It passed serious tests under extensive Industrial EMI and environmental vibration and shocks standards. With CE & FCC radio certification for Wi-Fi and LTE and E-marking** certificate, the IWMR-3002 is best for outdoor community, vehicle, process control automation etc. For more usage flexibilities, IWMR-3002 supports wide operating temperature from -20°C to 70°C or -40°C to 70°C(-E)

FEATURES & BENEFITS

- High Speed Air Connectivity: WLAN interface support up to 2.6GMbps link speed(2AC) or 1.3GMbps (1AC)
- Built-in two Gigabit ports incl. 1 PD port and 1LAN+1WAN or 2LAN
- Optional TWCC** (Train Wireless Carriage Coupling) for auto wireless coupling
- Dual band 2.4G and 5GHz with 802.11ac/a/b/g/n
- Support 2.4Ghz operating within the following frequency bands:
 - 2.412~2.472 GHz
- Support 5Ghz operating within the following frequency bands:
 - 5.180~5.825 GHz
- MIMO smart antenna technology with 3T3R with 6 SMA type connectors and optional antennas
 - Optional Air-teaming protection(2AC)
 - High-sustainability: if one link member is down or severely interfered, the other link will keep the network traffic alive.
 - Aggregated bandwidth: The bandwidth of two link members can be aggregated to provide maximum throughput—
- IEEE 802.11h DFS and automatic TPC
- Unlimited concurrent WIFI users
- Output power : <24dBM</p>
- Transmit power adjustment
- VAP (virtual access point) support up to 16 SSIDs
- Operation modes : AP / Bridge / Client
- Traffic control for each SSID**
- Band preference for same SSID services on dual band**
- Rate selection to disable low data rate access**
- Highly Security Capability: WEP64/128bits/ WPA/ WPA-PSK (TKIP*,AES)/ WPA2/ WPA2-PSK (TKIP*,AES)
- HTTP/HTTPS/Telnet/SSH & Administration access
- Support IPv6** & IPv4 protocol
- Radius Authentication, EAP-MD5, EAP-TLS, EAP-TTLS, PEAP; SSID broadcast disable supported**
- Multiple channel bandwidths of 20MHz and 40MHz for 2.4G.

- Multiple channel bandwidths of 20MHz, 40MHz and 80MHz for 5G only.
- Wi-Fi Multimedia (WMM) and 802.11e traffic prioritization
- Support Multi-Site VPN for mesh tunneling as well as Open VPN, L2TP, IPsec and PPTP** fro secured network connection
- The built-in Layer-4 firewall includes DoS**, IP address filter / Mac address filter* / TCP/UDP port number
- Support SNMP*v1/v2c/v3
- NAT/DMZ
- Dual concurrent LTE 4G/3G design (2L model) for auto-swap/failover/failback between multiple ISPs for continuous service (four SIM card slots)
- One LTE 4G/3G w/ 2 SIM card design(1L model) for mobile redundancy
- GPS & GLONASS connection
- Load Balancing** supports 8 mechanism between multiple WANs

| Pack | Algorithm | Description |
|--------------------|-----------------|---|
| Standard | Fixed | Manually route by traffic type through fixed WAN link. |
| Basic Package | Failover | Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link fail occurs. Once failover will not failback until link loss. |
| | Priority | Routes connections through preferred WAN link as primary while others follow by. Ex. Wi-Fi client>LTE>others |
| Round-Robin all wo | | Evenly distribute the traffic over all working WAN links in circular order according to the specified weights. |
| | Custom Route | Routing through the selected WAN for each specific traffic, ex: TCP/UDP port number and IP address. |



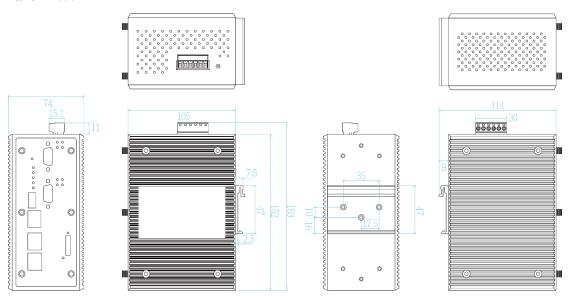
| Full Package (incl. basic package) | Sticky Session* | Binding all connections in an application session to particular WAN link to ensure all connections in the session are routed to the same WAN link, that is suitable for security services like online payment etc. |
|---|--------------------|--|
| | Smallest Load* | Routes connections through the WAN link with highest free bandwidth ratio. The ratio = 1 - (traffic load / the capability of a WAN link). The traffic load could be defined by downstream, upstream or total traffic |
| | Fastest* | Routes connections through the WAN link with lowest latency time. |

- Built-in 2 or 4 x serial ports(RS232/RS422/485)
- Serial port with 2.5KV isolation on RS422/485
- Supports optional 2DI / 2DO(Digital Input / Output)
- Built-in Modbus gateway converting Modbus RTU/ASCII to Modbus/TCP
- Optional DNP3 over Ethernet gateway on serial ports
- Event alerting by Syslog, SNMP Trap, Email**, SMS** text, Relay; Permanent local log rotation / Maxi 1K records

- Remote Web/SMS** control to get status or re-boot by Web
- Built-in RTC to keep track of time always
- Support SNTP to synchronize system clock
- Support LLDP discovery protocol
- Support DHCP Server and Client
- Reset button for factory default mode
- Graphic LTE & WIFI signal strength & TX/RX rate display
- Firmware upgradeable through TFTP/FTP/HTTP
- Configuration backup and restoration
 - Supports text configuration file for system quick installation
 - USB port to upload/download firmware by USB dongle
 - InstaView/AIR** for centralized configuration deployment, backup & upgrade
- Support editable captive portal login page
- Cloud/Host based InstaView/AIR** for fixed/fleet router management/configuration/monitoring
- IP 30 housing for industrial environment
- DIN-Rail and Wall-mount** installation
- Operation temperature -20~70C or -40°C to 70°C(-E)
- Wide range input voltage from 9V-60V

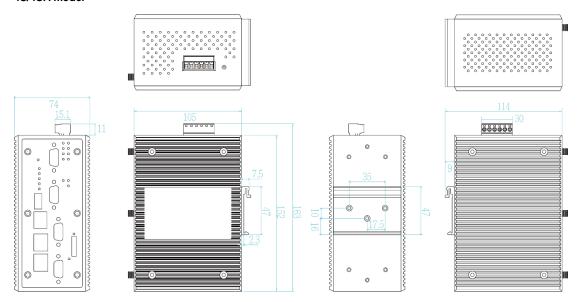
DIMENSIONS (unit=mm)

2S/2SA model





4S/4SA model



| SPECII | FICATION | | |
|----------------------|---|---------------------|--|
| WLAN Interf | ace | | ≦-84dBm @ 36Mbps |
| Operating Mode | AP/BRIDGE/Client modes | | ≦-81dBm @ 48Mbps |
| Radio Frequency | DSSS, OFDM | | ≦-80dBm @ 54Mbps |
| Type | | | ≤-93dBm @ MCS0 (HT20/40) |
| Wireless Standard | IEEE 802.11ac/n/a 5GHz | | ≦-71dBm/≦-80dBm @ MCS7 (HT20/40) |
| Wildioss Standard | IEEE 802.11b/g/n 2.4GHz | | ≦-90dBm @ MCS0 (VHT20/40/80) |
| Wireless bandwidth | 5GHz: Up to 1300Mbps | | ≦-69dBm @ MCS8 (VHT20/40/80) |
| Wilciess ballawiatii | 2.4GHz: Up to 450Mbps | | ≦-66dBm @ MCS9 (VHT40/80) |
| Modulation | 802.11b: DSSS | Encryption Security | WEP: (64-bit,128-bit key supported) |
| Woddiaton | 802.11a/g: | | WPA /WPA2 : IEEE802.11i(WEP and AES encryption) |
| | OFDM (BPSK, QPSK, 16-QAM, 64-QAM) | | WPA-PSK (256-bit key pre-shared key supported) |
| | 802.11n: | | OKC** and 802.11r** |
| | OFDM (BPSK, QPSK, 16-QAM, 64-QAM) | | EAP,MD5,EAP,TLS,EAP,TTLS,EAP |
| | 802.11ac: | | MsCHAPv3 and PEAP ** |
| | OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM) | Wireless Security | SSID broadcast disable** |
| Operating | IEEE 802.11 a/b/g/n ISM Band, | Cellular Inte | rface |
| Frequency | 2.412GHz~2.472GHz, 5150MHz~5850MHz | Location Solutions | GPS, Glonass (EU/Americas) |
| Transmission Rate | IEEE802.11ac: up to 1300Mbps | | GPS, Glonass, Beidou, Galileo (APAC model only) |
| Transmission rate | IEEE802.11b: 1 / 2 / 5.5 / 11 Mbps | Band Options | APAC & Australia (APAC model) |
| | IEEE802.11a/g: 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54 Mbps | | LTE: |
| | IEEE802.11n: up to 450Mbps | | 2100/1800/850/2600/900/850/850/1500/700/2600/19 |
| IEEE | Output Power Tx +/- 2dB(per chain) | | 00/2300/2500 MHz (B1/B3/B5/B7/B8/B18/B19/B21/B28/B38/B39/B40/B4 |
| 802.11b/g/n(2.4Gbp | 18dBm @ 1~11Mbps | | 1) |
| s) | 18dBm @ 6~54Mbps | | •, |
| | 20/20dBm @ MCS0~MCS7 (HT20/40) | | EUNA & USA model |
| | Receiver Sensitivity Rx +/- 2dB | | LTE: |
| | ≤-95dBm @ 1~11Mbps | | 2100/1800/2600/900/800 MHz |
| | ≤-92dBm @ 6~18Mbps | | (B1/B2/B3/B4/B5/B7/B12/B13/B20/B25/B26/B29/B30 |
| | ≦-88dBm @ 24Mbps | | /B41) |
| | ≦-85dBm @ 36Mbps | | WorldWide (WW model) |
| | ≦-81dBm @ 48Mbps | | LTE: |
| | ≤-80dBm @ 54Mbps | | 2100/1900/1800/1700/850/2600/900/1800/700/700/8/ |
| | ≤-94dBm @ MCS0 (HT20/40) | | 50/850/800/850/700/2300/1500/2500/3500/3700/520 |
| | ≦-76dBm @ MCS7 (HT20/40) | | 0/3600/1700 |
| IEEE | Output Power Tx +/- 2dB(per chain) | | (B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B18/B19/B20/B |
| 802.11a/n/ac(5Gbp | 20dBm @ 6~24Mbps | | 26/B28/B29/B30/B32/B41/B42/B43/B46/B48/B66) |
| | 16dBm @ 36~54Mbps | Data Rates – LTE | APAC & Australia (APAC model) |
| | 19/18dBm @ MCS0 (HT20/40) | Data Nates - LTL | Downlink (Cat 6): |
| | 16/16dBm @ MCS7 (HT20/40) | | FDD: 300 Mbps |
| | 19/18/18dBm @ MCS0 (VHT20/40/80) | | TDD: 222 Mbps |
| | 13/13/13dBm @ MCS8 (VHT20/40/80) | | Uplink (Cat 6): |
| | 13/13dBm @ MCS9 (VHT40/80) | | FDD: 50 Mbps |
| | Receiver Sensitivity Rx +/- 2dB | | TDD: 26 Mbps |
| | ≦-92dBm @ 6~18Mbps | | Americas (US model) / EMEA (EU model) |
| | ≦-86dBm @ 24Mbps | | Downlink (Category 3): |
| | | | Datasheet Version 5.4 |



| | 100 Mbps (20 MHz bandwidth) | Maintenance | Firmware upgradeable through TFTP/FTP/HTTP |
|---|--|--|--|
| | 50 Mbps (10 MHz bandwidth) | Configuration | Supports text configuration file for quick system |
| | Uplink (Category 3): | backup & restore | installation |
| | 50 Mbps (20 MHz bandwidth) | · | USB port to upload/download firmware by USB |
| | 25 Mbps (10 MHz bandwidth) | | dongle |
| | | | InstaView/AIR** for mass configuration/upgrade |
| Software | | Physical Po | rts & System |
| IPv6/4 | Present | Connectors | 10/100/1000T: 2x ports RJ 45 with Auto MDI/MDI-X |
| Login Security | Supports IEEE802.1x** Authentication/RADIUS | | function |
| TWCC** | Optional Train Wireless Carriage Coupling for Auto | | USB x 1 |
| | wireless Coupling | | RS-232 connector: 1 x RJ 45 Serial connector: 2 or 4 DB9 |
| Access Security | HTTP/HTTPS/Telnet/SSH & Administration; | | SIM card slots : 4(2L) or 2(1L) |
| | SNMP*v1/v2/v3 access for authentication via | | SMA connector : 6 (Wi-Fi male, LTE female) |
| Protocol | MD5/SHA(v3) and Encryption via DES/AES(v3) PPPoE Client, DHCP server/client, Adjustable MTU, | | Power & P-Fail connector: 1 x 6-pole terminal block |
| FIOLOGOI | Port forwarding (NAPT), DMZ; NAT, SNTP, | | DIDO **: 1 x 5-pole terminal block |
| | Firewall(Firewall(DoS**; IP address filter / Mac | Serial Baud Rate | 1000Kbps high data rate,250kbps normal for RS232; |
| | address filter* / TCP/UDP port name),VRRP**, | | 20Mbps high data rate,250kbps normal for |
| | DDNS* | 0 : 10 : 5: | RS422/485 |
| Management | SNMP*v1,v2c,v3/Web/Telnet/CLI | Serial Data Bits | 5, 6, 7, 8 |
| Load Balancing** | 8 schemes for multiple WAN | Serial Parity | odd, even, none, mark, space |
| Fixed | Manually route by traffic type through fixed WAN link. | Serial Stop Bits | 1, 1.5, 2 |
| Basic Package* | * | RS-232 RS-422 | TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND |
| Failover | Routes connections through preferred WAN link while | RS-422 RS-485 (2-wire) | Tx+,Tx-, Rx+, Rx-,GND Data+, Data-,GND |
| | others stand-by. Sequentially activate another link if | Micro SD | 128G or 256G(MSD model) |
| | preferred link failure occurs. | Isolation protection | RS422/485 2.5KV isolation; 8KV contact & 15KV air |
| B : " | · | Colation protection | RS232 8KV contact and 15KV air ESD |
| Priority | Routes connections through preferred WAN link while | | DIDO** 3KV isolation |
| | others stand-by. Sequentially activate other links if | | Input power 1.5KVA isolation |
| | overflow occurs. | LED Indicat | ors |
| Weighted | Evenly distribute the traffic over all working WAN links | Power & System | Per unit: Power 1 (Green), Power 2 (Green), P-Fail |
| Round-Robin | in circular order according to the specified weights | indicator | (Red), Ring Master(Green), Storage(Green), |
| Custom Route | Routing through the selected WAN for each specific | | Serial1/Serial2/Serial3/Serial4(Green) |
| | traffic ex: TCP/UDP port number and IP address. | 10/100/1000Base-T | Link/Activity (Green), Speed (Yellow) |
| Full Package in | cl. basic package** | (X) port indicator | Croon for Link/A at |
| Sticky Session* | Binding all connections in an application session to | SIM GPS | Green for Link/Act Green for Link/Act |
| | particular WAN link to ensure all connections in the | WLAN LEDs | WLAN 1, WLAN2 Link /ACT : Green |
| | | DI/DO** | 2 Digital Input (DI): |
| | session are routed to the same WAN link , that is | | Level 0: -30~2V / Level 1: 10~30V |
| | suitable for security services like online payment etc. | | Max. input current:8mA |
| Smallest Load* | Routes connections through the WAN link with | | 2 Digital Output(DO): Open collector to 40 VDC, |
| | highest free bandwidth ratio. The ratio = 1 - (traffic load / the capability of a WAN | | 200mA |
| | link). | Fault | Red: Ethernet link down or power down |
| | The traffic load could be defined by downstream, | Fault conta | ct |
| | upstream or total traffic | Relay | Relay output to carry capacity of 1A at 24VDC |
| Fastest* | Routes connections through the WAN link with lowest | Power | |
| i asiesi | latency time. | Input power | Dual DC inputs, 9V~60VDC |
| Fast | 802.11r <50ms work with Lantech controller | Power consumption | 20 Watts |
| Roaming<50ms** | | (Typ.) Physical Ch | aracteristic |
| Air tooming | High sustainability with fail over link | | CIDUS GIISIIC |
| Air-teaming | | | ID oo I . |
| protection(2AC)** | Aggregated bandwidth | Enclosure | IP 30 aluminum case |
| : (0.4.0)++ | . # | Enclosure Dimension | ID oo I . |
| protection(2AC)** WMM | Aggregated bandwidth Wi-Fi multimedia and 802.11e traffic prioritization | Enclosure Dimension Weight | IP 30 aluminum case 74 (W) x 114 (D) x 152 (H) mm 900g |
| protection(2AC)** WMM Security | Aggregated bandwidth Wi-Fi multimedia and 802.11e traffic prioritization WEP64/128bits/ WPA/ WPA-PSK (TKIP*,AES)/ WPA2/WPA2-PSK (TKIP*,AES)/SSH/SSL/HTTPS | Enclosure Dimension Weight Environmer | IP 30 aluminum case 74 (W) x 114 (D) x 152 (H) mm 900g 1tal |
| protection(2AC)** WMM | Aggregated bandwidth Wi-Fi multimedia and 802.11e traffic prioritization WEP64/128bits/ WPA/ WPA-PSK (TKIP*,AES)/ WPA2/WPA2-PSK (TKIP*,AES)/SSH/SSL/HTTPS Radius Authentication, EAP-MD5, EAP-TLS, | Enclosure Dimension Weight Environmer Storage Temperature | IP 30 aluminum case 74 (W) x 114 (D) x 152 (H) mm 900g 1tal -40°C ~ 85°C (-40°F ~ 185°F) |
| protection(2AC)** WMM Security | Aggregated bandwidth Wi-Fi multimedia and 802.11e traffic prioritization WEP64/128bits/WPA/WPA-PSK (TKIP*,AES)/ WPA2/WPA2-PSK (TKIP*,AES)/SSH/SSL/HTTPS Radius Authentication, EAP-MD5, EAP-TLS, EAP-TTLS, PEAP; SSID broadcast disable | Enclosure Dimension Weight Environmer Storage Temperature Operating | IP 30 aluminum case 74 (W) x 114 (D) x 152 (H) mm 900g 1tal -40°C ~ 85°C (-40°F ~ 185°F) -20°C ~70°C (-4°F ~ 158°F) |
| protection(2AC)** WMM Security | Aggregated bandwidth Wi-Fi multimedia and 802.11e traffic prioritization WEP64/128bits/ WPA/ WPA-PSK (TKIP*,AES)/ WPA2/WPA2-PSK (TKIP*,AES)/SSH/SSL/HTTPS Radius Authentication, EAP-MD5, EAP-TLS, | Enclosure Dimension Weight Environmer Storage Temperature Operating Temperature | IP 30 aluminum case 74 (W) x 114 (D) x 152 (H) mm 900g 1tal -40°C ~ 85°C (-40°F ~ 185°F) -20°C ~70°C (-4°F ~ 158°F) -40°C ~70°C (-40°F ~ 158°F)-E model |
| protection(2AC)** WMM Security Authentication | Aggregated bandwidth Wi-Fi multimedia and 802.11e traffic prioritization WEP64/128bits/ WPA/ WPA-PSK (TKIP*,AES)/ WPA2/WPA2-PSK (TKIP*,AES)/SSH/SSL/HTTPS Radius Authentication, EAP-MD5, EAP-TLS, EAP-TTLS, PEAP; SSID broadcast disable supported** | Enclosure Dimension Weight Environmer Storage Temperature Operating Temperature Operating Humidity | IP 30 aluminum case 74 (W) x 114 (D) x 152 (H) mm 900g 1tal -40°C ~ 85°C (-40°F ~ 185°F) -20°C ~70°C (-40°F ~ 158°F) -40°C ~ 70°C (-40°F ~ 158°F)-E model 5% to 95% Non-condensing |
| protection(2AC)** WMM Security Authentication | Aggregated bandwidth Wi-Fi multimedia and 802.11e traffic prioritization WEP64/128bits/ WPA/ WPA-PSK (TKIP*,AES)/ WPA2/WPA2-PSK (TKIP*,AES)/SSH/SSL/HTTPS Radius Authentication, EAP-MD5, EAP-TLS, EAP-TTLS, PEAP; SSID broadcast disable supported** 16 sets | Enclosure Dimension Weight Environmer Storage Temperature Operating Temperature Operating Humidity Regulatory | IP 30 aluminum case 74 (W) x 114 (D) x 152 (H) mm 900g 1tal -40°C ~ 85°C (-40°F ~ 185°F) -20°C ~70°C (-4°F ~ 158°F) -40°C ~70°C (-40°F ~ 158°F)-E model 5% to 95% Non-condensing approvals |
| protection(2AC)** WMM Security Authentication SSID Client mode | Aggregated bandwidth Wi-Fi multimedia and 802.11e traffic prioritization WEP64/128bits/ WPA/ WPA-PSK (TKIP*,AES)/ WPA2/WPA2-PSK (TKIP*,AES)/SSH/SSL/HTTPS Radius Authentication, EAP-MD5, EAP-TLS, EAP-TTLS, PEAP; SSID broadcast disable supported** 16 sets PMK** Caching and pre-authentication. | Enclosure Dimension Weight Environmer Storage Temperature Operating Temperature Operating Humidity Regulatory EMC | IP 30 aluminum case 74 (W) x 114 (D) x 152 (H) mm 900g 1tal -40°C ~ 85°C (-40°F ~ 185°F) -20°C ~70°C (-40°F ~ 158°F)-E model 5% to 95% Non-condensing approvals FCC* Part 15 Class A, EN55032* |
| protection(2AC)** WMM Security Authentication SSID Client mode Timer Discovery | Aggregated bandwidth Wi-Fi multimedia and 802.11e traffic prioritization WEP64/128bits/ WPA/ WPA-PSK (TKIP*,AES)/ WPA2/WPA2-PSK (TKIP*,AES)/SSH/SSL/HTTPS Radius Authentication, EAP-MD5, EAP-TLS, EAP-TTLS, PEAP; SSID broadcast disable supported** 16 sets PMK** Caching and pre-authentication. Built-in Real Time Clock to keep track of time always(RTC) IEEE 802.1ab Link Layer Discovery Protocol (LLDP) | Enclosure Dimension Weight Environmer Storage Temperature Operating Temperature Operating Humidity Regulatory | IP 30 aluminum case 74 (W) x 114 (D) x 152 (H) mm 900g 1tal -40°C ~ 85°C (-40°F ~ 185°F) -20°C ~70°C (-40°F ~ 158°F) -40°C ~70°C (-40°F ~ 158°F)-E model 5% to 95% Non-condensing approvals FCC* Part 15 Class A, EN55032* EN61000-4-2 (ESD), EN61000-4-3 (RS), |
| protection(2AC)** WMM Security Authentication SSID Client mode Timer | Aggregated bandwidth Wi-Fi multimedia and 802.11e traffic prioritization WEP64/128bits/ WPA/ WPA-PSK (TKIP*,AES)/ WPA2/WPA2-PSK (TKIP*,AES)/SSH/SSL/HTTPS Radius Authentication, EAP-MD5, EAP-TLS, EAP-TTLS, PEAP; SSID broadcast disable supported** 16 sets PMK** Caching and pre-authentication. Built-in Real Time Clock to keep track of time always(RTC) IEEE 802.1ab Link Layer Discovery Protocol (LLDP) Device cold / warm start | Enclosure Dimension Weight Environmer Storage Temperature Operating Temperature Operating Humidity Regulatory EMC | IP 30 aluminum case 74 (W) x 114 (D) x 152 (H) mm 900g 1tal -40°C ~ 85°C (-40°F ~ 185°F) -20°C ~70°C (-40°F ~ 158°F) -40°C ~70°C (-40°F ~ 158°F)-E model 5% to 95% Non-condensing approvals FCC* Part 15 Class A, EN55032* EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), |
| protection(2AC)** WMM Security Authentication SSID Client mode Timer Discovery | Aggregated bandwidth Wi-Fi multimedia and 802.11e traffic prioritization WEP64/128bits/ WPA/ WPA-PSK (TKIP*,AES)/ WPA2/WPA2-PSK (TKIP*,AES)/SSH/SSL/HTTPS Radius Authentication, EAP-MD5, EAP-TLS, EAP-TTLS, PEAP; SSID broadcast disable supported** 16 sets PMK** Caching and pre-authentication. Built-in Real Time Clock to keep track of time always(RTC) IEEE 802.1ab Link Layer Discovery Protocol (LLDP) Device cold / warm start Port link up / link down | Enclosure Dimension Weight Environmer Storage Temperature Operating Temperature Operating Humidity Regulatory EMC EMS | IP 30 aluminum case 74 (W) x 114 (D) x 152 (H) mm 900g 1tal -40°C ~ 85°C (-40°F ~ 185°F) -20°C ~70°C (-40°F ~ 158°F)-E model 5% to 95% Non-condensing approvals FCC* Part 15 Class A, EN55032* EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11 |
| protection(2AC)** WMM Security Authentication SSID Client mode Timer Discovery SNMP trap | Aggregated bandwidth Wi-Fi multimedia and 802.11e traffic prioritization WEP64/128bits/ WPA/ WPA-PSK (TKIP*,AES)/ WPA2/WPA2-PSK (TKIP*,AES)/SSH/SSL/HTTPS Radius Authentication, EAP-MD5, EAP-TLS, EAP-TTLS, PEAP; SSID broadcast disable supported** 16 sets PMK** Caching and pre-authentication. Built-in Real Time Clock to keep track of time always(RTC) IEEE 802.1ab Link Layer Discovery Protocol (LLDP) Device cold / warm start Port link up / link down DI / DO high / low** | Enclosure Dimension Weight Environmer Storage Temperature Operating Temperature Operating Humidity Regulatory EMC EMS | IP 30 aluminum case 74 (W) x 114 (D) x 152 (H) mm 900g 1tal -40°C ~ 85°C (-40°F ~ 185°F) -20°C ~70°C (-40°F ~ 158°F)-E model 5% to 95% Non-condensing approvals FCC* Part 15 Class A, EN55032* EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11 E13*** |
| protection(2AC)** WMM Security Authentication SSID Client mode Timer Discovery SNMP trap Graphic signal | Aggregated bandwidth Wi-Fi multimedia and 802.11e traffic prioritization WEP64/128bits/ WPA/ WPA-PSK (TKIP*,AES)/ WPA2/WPA2-PSK (TKIP*,AES)/SSH/SSL/HTTPS Radius Authentication, EAP-MD5, EAP-TLS, EAP-TTLS, PEAP; SSID broadcast disable supported** 16 sets PMK** Caching and pre-authentication. Built-in Real Time Clock to keep track of time always(RTC) IEEE 802.1ab Link Layer Discovery Protocol (LLDP) Device cold / warm start Port link up / link down DI / DO high / low** Graphic LTE & Wi-Fi signal strength & TX / RX rate | Enclosure Dimension Weight Environmer Storage Temperature Operating Temperature Operating Humidity Regulatory EMC EMS E-marking** MTBF | IP 30 aluminum case 74 (W) x 114 (D) x 152 (H) mm 900g 1tal -40°C ~ 85°C (-40°F ~ 185°F) -20°C ~70°C (-40°F ~ 158°F)-E model 5% to 95% Non-condensing approvals FCC* Part 15 Class A, EN55032* EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11 E13** NA |
| protection(2AC)** WMM Security Authentication SSID Client mode Timer Discovery SNMP trap Graphic signal display | Aggregated bandwidth Wi-Fi multimedia and 802.11e traffic prioritization WEP64/128bits/ WPA/ WPA-PSK (TKIP*,AES)/ WPA2/WPA2-PSK (TKIP*,AES)/SSH/SSL/HTTPS Radius Authentication, EAP-MD5, EAP-TLS, EAP-TTLS, PEAP; SSID broadcast disable supported** 16 sets PMK** Caching and pre-authentication. Built-in Real Time Clock to keep track of time always(RTC) IEEE 802.1ab Link Layer Discovery Protocol (LLDP) Device cold / warm start Port link up / link down DI / DO high / low** Graphic LTE & Wi-Fi signal strength & TX / RX rate display | Enclosure Dimension Weight Environmer Storage Temperature Operating Temperature Operating Humidity Regulatory EMC EMS | IP 30 aluminum case 74 (W) x 114 (D) x 152 (H) mm 900g 1tal -40°C ~ 85°C (-40°F ~ 185°F) -20°C ~70°C (-40°F ~ 158°F)-E model 5% to 95% Non-condensing approvals FCC* Part 15 Class A, EN55032* EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11 E13** NA 5 years |
| protection(2AC)** WMM Security Authentication SSID Client mode Timer Discovery SNMP trap Graphic signal | Aggregated bandwidth Wi-Fi multimedia and 802.11e traffic prioritization WEP64/128bits/ WPA/ WPA-PSK (TKIP*,AES)/ WPA2/WPA2-PSK (TKIP*,AES)/SSH/SSL/HTTPS Radius Authentication, EAP-MD5, EAP-TLS, EAP-TTLS, PEAP; SSID broadcast disable supported** 16 sets PMK** Caching and pre-authentication. Built-in Real Time Clock to keep track of time always(RTC) IEEE 802.1ab Link Layer Discovery Protocol (LLDP) Device cold / warm start Port link up / link down DI / DO high / low** Graphic LTE & Wi-Fi signal strength & TX / RX rate | Enclosure Dimension Weight Environmer Storage Temperature Operating Temperature Operating Humidity Regulatory EMC EMS E-marking** MTBF | IP 30 aluminum case 74 (W) x 114 (D) x 152 (H) mm 900g 1tal -40°C ~ 85°C (-40°F ~ 185°F) -20°C ~70°C (-40°F ~ 158°F)-E model 5% to 95% Non-condensing approvals FCC* Part 15 Class A, EN55032* EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11 E13** NA |



RF Performance Table

| | Data Rate | TX Power (per chain) | TX Power (3 chains) | Tolerance | RX Specifications Sensitivity | Tolerance |
|-------------------|-----------|-------------------------|------------------------|-----------|----------------------------------|-----------|
| | 1Mbps | 20dBm | 25dBm | ±2dB | -95dBm | ±2dB |
| 2.4GHz | 2Mbps | 20dBm | 25dBm | ±2dB | -94dBm | ±2dB |
| 802.11b | 5.5Mbps | 20dBm | 25dBm | ±2dB | -92dBm | ±2dB |
| | 11Mbps | 20dBm | 25dBm | ±2dB | -90dBm | ±2dB |
| | 6Mbps | 21dBm | 26dBm | ±2dB | -94dBm | ±2dB |
| | 9Mbps | 21dBm | 26dBm | ±2dB | -93dBm | ±2dB |
| | 12Mbps | 21dBm | 26dBm | ±2dB | -92dBm | ±2dB |
| 2.4GHz | 18Mbps | 21dBm | 26dBm | ±2dB | -90dBm | ±2dB |
| 802.11g | 24Mbps | 21dBm | 26dBm | ±2dB | -88dBm | ±2dB |
| | 36Mbps | 20dBm | 25dBm | ±2dB | -85dBm | ±2dB |
| | 48Mbps | 19dBm | 24dBm | ±2dB | -81dBm | ±2dB |
| | 54Mbps | 18dBm | 23dBm | ±2dB | -80dBm | ±2dB |
| | MCS 0 | 21dBm | 26dBm | ±2dB | -94dBm | ±2dB |
| | MCS 1 | 21dBm | 26dBm | ±2dB | -91dBm | ±2dB |
| | MCS 2 | 21dBm | 26dBm | ±2dB | -89dBm | ±2dB |
| 2.4GHz 802.11n | MCS 3 | 20dBm | 25dBm | ±2dB | -84dBm | ±2dB |
| HT20 | MCS 4 | 20dBm | 25dBm | ±2dB | -83dBm | ±2dB |
| | MCS 5 | 20dBm | 25dBm | ±2dB | -78dBm | ±2dB |
| | MCS 6 | 18dBm | 23dBm | ±2dB | -78dBm | ±2dB |
| | MCS 7 | 16dBm | 21dBm | ±2dB | -76dBm | ±2dB |
| | MCS 0 | 20dBm | 25dBm | ±2dB | -92dBm | ±2dB |
| | MCS 1 | 20dBm | 25dBm | ±2dB | -89dBm | ±2dB |
| | MCS 2 | 20dBm | 25dBm | ±2dB | -87dBm | ±2dB |
| 2.4GHz | MCS 3 | 19dBm | 24dBm | ±2dB | -82dBm | ±2dB |
| 802.11n HT40 | MCS 4 | 19dBm | 24dBm | ±2dB | -80dBm | ±2dB |
| | MCS 5 | 19dBm | 24dBm | ±2dB | -78dBm | ±2dB |
| | MCS 6 | 18dBm | 23dBm | ±2dB | -77dBm | ±2dB |
| | MCS 7 | 16dBm | 21dBm | ±2dB | -73dBm | ±2dB |

| | Data Rate | TX Power (per chain) | TX Power (3 chains) | Tolerance | RX Specifications Sensitivity | Tolerance |
|---------------------|-----------|----------------------|------------------------|-----------|----------------------------------|-----------|
| | 6Mbps | 20dBm | 25dBm | ±2dB | -94dBm | ±2dB |
| | 9Mbps | 20dBm | 25dBm | ±2dB | -94dBm | ±2dB |
| | 12Mbps | 20dBm | 25dBm | ±2dB | -92dBm | ±2dB |
| 5GHz | 18Mbps | 20dBm | 25dBm | ±2dB | -90dBm | ±2dB |
| 802.11a | 24Mbps | 20dBm | 25dBm | ±2dB | -86dBm | ±2dB |
| | 36Mbps | 18dBm | 23dBm | ±2dB | -84dBm | ±2dB |
| | 48Mbps | 16dBm | 21dBm | ±2dB | -81dBm | ±2dB |
| | 54Mbps | 15dBm | 20dBm | ±2dB | -80dBm | ±2dB |
| | MCS 0 | 19dBm | 24dBm | ±2dB | -93dBm | ±2dB |
| | MCS 1 | 19dBm | 24dBm | ±2dB | -90dBm | ±2dB |
| | MCS 2 | 19dBm | 24dBm | ±2dB | -87dBm | ±2dB |
| 5GHz | MCS 3 | 18dBm | 23dBm | ±2dB | -83dBm | ±2dB |
| 802.11n/ac VHT20 | MCS 4 | 18dBm | 23dBm | ±2dB | -80dBm | ±2dB |
| VH120 | MCS 5 | 17dBm | 22dBm | ±2dB | -77dBm | ±2dB |
| | MCS 6 | 16dBm | 21dBm | ±2dB | -74dBm | ±2dB |
| | MCS 7 | 14dBm | 19dBm | ±2dB | -73dBm | ±2dB |
| | MCS 8 | 13dBm | 18dBm | ±2dB | -71dBm | ±2dB |
| | MCS 0 | 18dBm | 23dBm | ±2dB | -90dBm | ±2dB |
| | MCS 1 | 18dBm | 23dBm | ±2dB | -88dBm | ±2dB |
| 5GHz | MCS 2 | 18dBm | 23dBm | ±2dB | -85dBm | ±2dB |
| 802.11n/ac VHT40 | MCS 3 | 17dBm | 22dBm | ±2dB | -82dBm | ±2dB |
| VH140 | MCS 4 | 17dBm | 22dBm | ±2dB | -80dBm | ±2dB |
| | MCS 5 | 16dBm | 21dBm | ±2dB | -75dBm | ±2dB |
| | MCS 6 | 15dBm | 20dBm | ±2dB | -73dBm | ±2dB |



| | MCS 7 | 14dBm | 19dBm | ±2dB | -73dBm | ±2dB |
|-------------------|-------|-------|-------|------|--------|------|
| | MCS 8 | 13dBm | 18dBm | ±2dB | -70dBm | ±2dB |
| | MCS 9 | 13dBm | 18dBm | ±2dB | -68dBm | ±2dB |
| | MCS 0 | 18dBm | 23dBm | ±2dB | -89dBm | ±2dB |
| | MCS 1 | 18dBm | 23dBm | ±2dB | -87dBm | ±2dB |
| | MCS 2 | 18dBm | 23dBm | ±2dB | -85dBm | ±2dB |
| | MCS 3 | 17dBm | 22dBm | ±2dB | -83dBm | ±2dB |
| 5GHz | MCS 4 | 17dBm | 22dBm | ±2dB | -80dBm | ±2dB |
| 802.11ac VHT80 | MCS 5 | 16dBm | 21dBm | ±2dB | -78dBm | ±2dB |
| VH160 | MCS 6 | 15dBm | 20dBm | ±2dB | -75dBm | ±2dB |
| | MCS 7 | 14dBm | 19dBm | ±2dB | -72dBm | ±2dB |
| | MCS 8 | 13dBm | 18dBm | ±2dB | -70dBm | ±2dB |
| | MCS 9 | 13dBm | 18dBm | ±2dB | -68dBm | ±2dB |

ORDERING INFOMATION

For -40~70C operational temperature model, the model name will add -E

- IWMR-3002-2L-1AC-2S-EUNA......P/N: 8610-101
 - Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 2 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~70C
- IWMR-3002-2L-1AC-2S-WW......P/N: 8610-102

Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 2 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~70C

- IWMR-3002-2L-1AC-2S-APAC......P/N: 8610-103
 - Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 2 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~70C
- IWMR-3002-2L-1AC-2SA-EUNA......P/N: 8610-104

Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 2 RS422/485 serial isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~70C

- IWMR-3002-2L-1AC-2SA-WW......P/N: 8610-105
 - Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 2 RS422/485 serial isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~70C
- IWMR-3002-2L-1AC-2SA-APAC......P/N: 8610-106

Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 2 RS422/485 serial isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~70C

■ IWMR-3002-1L-1AC-2S-EUNA......P/N: 8610-107

Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 2 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~70C

■ IWMR-3002-1L-1AC-2S-WW......P/N: 8610-108

Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 2 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~70C

■ IWMR-3002-1L-1AC-2S-APAC......P/N: 8610-109

Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 2 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~70C

Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 2 RS422/485 serial isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~70C

■ IWMR-3002-1L-1AC-2SA-WW......P/N: 8610-1102

Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 2 RS422/485 serial isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~70C

■ IWMR-3002-1L-1AC-2SA-APACP/N: 8610-1103

Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 2 RS422/485 serial isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~70C

■ IWMR-3002-1L-2AC-2S-EUNA......P/N: 8610-1104

Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/2 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC -20~70C

■ IWMR-3002-1L-2AC-2S- WWP/N: 8610-1105

Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/2 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~70C

■ IWMR-3002-1L-2AC-2S-APACP/N: 8610-1106

Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/2 RS232 serial ports and 2 port Gigabit Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~70C

■ IWMR-3002-1L-2AC-2SA-EUNA......P/N:8610-111

Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/2 RS422/485 serial isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~70C

IWMR-3002-1L-2AC-2SA-WW......P/N:8610-112



| | Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/2 RS422/485 serial isolated |
|---|---|
| | ports and 2 port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~70C |
| | IWMR-3002-1L-2AC-2SA-APACP/N:8610-113 |
| _ | Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/2 RS422/485 serial |
| | isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~70C |
| | IWMR-3002-2L-1AC-4S-EUNAP/N: 8610-114 |
| _ | Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 4 RS232 serial ports and 2 |
| | port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~70C |
| | IWMR-3002-2L-1AC-4S-WW |
| _ | Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 4 RS232 serial ports and 2 |
| | port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~70C |
| | IWMR-3002-2L-1AC-4S-APAC |
| _ | Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 4 RS232 serial ports and 2 |
| | |
| - | port Gigabit Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~70C |
| | IWMR-3002-2L-1AC-4SA-EUNAP/N: 8610-117 |
| | Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 4 RS422/485 serial |
| _ | isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~70C |
| | IWMR-3002-2L-1AC-4SA-WWP/N: 8610-118 |
| | Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 4 RS422/485 serial |
| | isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~70C |
| | IWMR-3002-2L-1AC-4SA-APACP/N: 8610-119 |
| | Industrial Dual LTE (Quad SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 4 RS422/485 serial |
| | isolated ports and 2 port Gigabit Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~70C |
| | IWMR-3002-1L-1AC-4S-EUNAP/N: 8610-121 |
| | Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 4 RS232 serial ports and 2 |
| | port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~70C |
| | IWMR-3002-1L-1AC-4S-WWP/N: 8610-122 |
| | Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 4 RS232 serial ports and 2 |
| | port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~70C |
| | IWMR-3002-1L-1AC-4S-APACP/N: 8610-123 |
| | Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 4 RS232 serial ports and 2 |
| | port Gigabit Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~70C |
| | IWMR-3002-1L-1AC-4SA-EUNAP/N: 8610-124 |
| | Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 4 RS422/485 serial isolated |
| | ports and 2 port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~70C |
| | IWMR-3002-1L-1AC-4SA-WWP/N: 8610-125 |
| | Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 4 RS422/485 serial isolated |
| | ports and 2 port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~70C |
| | IWMR-3002-1L-1AC-4SA-APACP/N: 8610-126 |
| | Industrial One LTE (Dual SIM) One Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 4 RS422/485 serial isolated |
| | ports and 2 port Gigabit Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~70C |
| | IWMR-3002-1L-2AC-4S-EUNAP/N: 8610-127 |
| | Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/4 RS232 serial ports and 2 |
| | port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~70C |
| | IWMR-3002-1L-2AC-4S-WWP/N: 8610-128 |
| | Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/4 RS232 serial ports and 2 |
| | port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~70C |
| | IWMR-3002-1L-2AC-4S-APACP/N: 8610-129 |
| | Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/4 RS232 serial ports and 2 |
| | port Gigabit Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~70C |
| | IWMR-3002-1L-2AC-4SA-EUNAP/N: 8610-131 |
| | Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/4 RS422/485 serial isolated |
| | ports and 2 port Gigabit Ethernet (incl.1 PD port); EU and US band; dual 9V~60VDC; -20~70C |
| | IWMR-3002-1L-2AC-4SA-WWP/N: 8610-132 |
| | Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/4 RS422/485 serial isolated |
| | ports and 2 port Gigabit Ethernet (incl.1 PD port); worldwide band; dual 9V~60VDC; -20~70C |
| | IWMR-3002-1L-2AC-4SA-APACP/N: 8610-133 |
| | Industrial One LTE (Dual SIM) Two Wi-Fi 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/4 RS422/485 serial isolated |
| | ports and 2 port Gigabit Ethernet (incl.1 PD port); APAC band; dual 9V~60VDC; -20~70C |
| | |
| | Built-in MSD for Router 3000 Series |
| | |
| | Built-in USB to MicroSD 128GB ModuleP/N:8850-210 |
| | Built-in USB to MicroSD 256GB ModuleP/N:8850-213 |
| | |
| | |



Software License

| LOAD BALANCING Basic Package | P/N: 9000-101 |
|------------------------------|---------------|
| LOAD BALANCING Full Package | P/N: 9000-102 |
| TWCC | P/N: 9000-103 |
| DNP3 GATEWAY | P/N: 9000-106 |
| WIRELESS ROAMING | P/N: 9000-107 |

OPTIONAL ACCESSORIES

LTE Antenna

ANT11000041 791-960/1710~2170/2500~2700MHZ, SMA plug, EU

ANT11000042 704-960/1710~2170MHZ, SMA plug, US

Wireless Connector Adapter

■ ADA11000052 RP SMA Jack Base, Length: 1M

Wireless Antenna

ANT11000050 2.4G&5.8GHz SMA Omni-directional / dipole antenna, 2dBi or 5.8GHz 3dBi

■ ANT11000051 2.4G&5.8GHz SMA Omni-directional / dipole antenna, 5dBi

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