IPWMR-3006

Industrial Multifunction VPN Router w/up to 2x WiFi 11ac + up to 2 LTE 4G + 2 serial ports + 6 Gigabit Ethernet Switch(incl. 4 PoE) 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 mobility for 3G/4G LTE Link&GPS(2L-1AC model/4 SIMs)
- Built-in 6 Gigabit Ethernet switch including4 PoE at/af w/budget 80W
- Dual radio for 802.11ac/a/b/g/n with concurrent 5GHz & 5GHz bands up to 2.6Gbps Wi-Fi bandwidth(2AC model)
- WIFI radio for 802.11ac/a/b/g/n with 5GHz or 2.4GHz;
- Support WIFI 802.11e traffic prioritization and WMM
- MIMO technology 3T3R up to 6 antenna(2AC); SMA type external antenna
- Fast roaming < 50ms**, 802.11r standard</p>
- Supports AP/ BRIDGE/Client modes
- Air-teaming** for WIFI high-sustainability and aggregated bandwidth
- Advanced wireless security WEP64/128bits/ WPA/ WPA-PSK (TKIP*,AES)/ WPA2/ WPA2-PSK (TKIP*,AES)
- Optional TWCC** (Train Wireless Carriage Coupling)for auto wireless coupling
- VPN router for Multi-site VPN, OpenVPN, L2TP, IPSec, PPTP**
- Load Balancing** support 8 mechanism
- Support NAT and Firewall
- Support Modbus or DNP3** gateway on serial ports
- Support 2 RS422/485 ports with 2.5KV isolation or 2x RS232 ports
- Optional storage microSD** for storage backup or multi-media content suit with load-balancing route.
- Input voltage selection 9~56VDC (24V model)
- Environmental monitoring for router inside info with voltage, current, temperature and total PoE load; WIFI & LTE graphic signal strength & TX/RX rate display
- 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

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Lantech IPWMR-3006 series is a next generation industrial multi-function VPN router w/up to 2x 802.3ac WiFi + up to 2x LTE modem + + 6x Gigabit Ethernet switch incl. 4 PoE ports + 2 serial ports that supports advanced function of VPN, Load-balancing**(Basic & Full package), TWCC**, Protocol gateway(Modbus,DNP3**), Storage**, WiFi 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

IPWMR-3006 supports 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 (1L model), 2 SIM card slots, IPWMR-3006 provides redundant link between two service providers.



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Both GPS and Russian GLONASS systems are supported.

IEEE 802.11ac dual band radio up to 2.6Gbps bandwidth

With IEEE 802.11ac capability, IPWMR-3006 can operate either 5GHz or 2.4GHz bands, offering the maximum speed of 2.6Gbps bandwidth (1.3Gbps per 1AC). It is also compatible with 802.11g/n that can work with 2.4GHz for longer range transmission.

The WiFi 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 WiFi with first priority.

Air-teaming** for wireless high-sustainability and aggregated

The innovative Air-teaming** 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 IPWMR-3006 series adapts MIMO technology with smart antenna transmission and reception for 3T3R. With six external detachable omni connectors and optional antennas, IPWMR-3006 can have better Wi-Fi & LTE/GPS coverage.

802.11r fast roaming <50ms**

IPWMR-3006 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.

Wireless WMM QoS

IPWMR-3006 supports 802.11e standard which defines a set of Quality of Service for wireless LAN applications as well as WMM (WIFI 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 IPWMR-3006 support up to 16 SSIDs, each SSID has its independent security and encryption.

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

IPWMR-3006 supports Load Balancing** for LTE/WAN 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. WiFi 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 port serial connection, Modbus / DNP3** gateway

It builds in 2 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, IPWMR-3006 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 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 IPWMR-3006 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 by Web/SMS**.

Wide range input voltage from 9V-56VDC; Built-in 6 port PoE at/af switch with 80W budget

The IPWMR-3006 is able to work from 9VDC to 56VDC for PoE at/af with PoE budget 80W @12V /80W @24V&48V that is



particular good for vehicle, rail train, depot etc. application.

Environmental monitoring for inside router info& alerting;

Graphic WIFI & LTE signal strength and TX/RX rate display The built-in environmental monitoring can detect router ambient temperature, voltage, current and total PoE load where can send the syslog, email** and SMS** alert when abnormal.

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, remote configuration/upgrade, monitoring/alerting and report function

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

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

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

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 IPWMR-3006 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 IPWMR-3006 is designed to meet with industrial 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 WIFI and LTE and E-marking certificate, the IPWMR-3006 is best for outdoor community, vehicle, process control automation etc. For more usage flexibilities, IPWMR-3006 supports wide operating temperature from -20°C to 70°C & -40°C to 70°C(-E model)

FEATURES & BENEFITS

- High Speed Air Connectivity: WLAN interface support up to 2.6Gbps link speed(2AC) or 1.3Gbps (1AC)
- Built-in 6 Gigabit Ethernet switch incl. 4 PoE at/af for PoE budget 80W
- 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:
 - 5.180GHz~5.825GHz
- MIMO smart antenna technology with 3T3R
- 6 SMA type connectors for WiFi & LTE, GPS
- 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
- Output power : <24dBM</p>
- Transmit power adjustment
- VAP (virtual access point) support up to 16 SSIDs
- Operation modes : AP/ BRIDGE / Client
- IEEE 802.11h DFS and automatic TPC
- 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 (support by LTE module) connection
- Fast roaming** (Optional) <50ms between APs by Wireless Controller
- Load Balancing** supports 8 mechanism between multiple WANs

Pack	Algorithm	Description

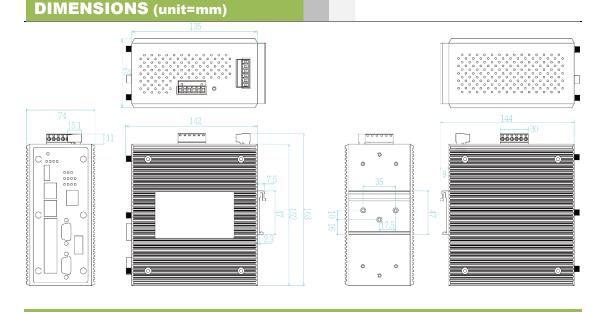


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Basic Package	Failover	Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link fail occurs. Once failover will not failback until link loss.		
	Priority	Routes connections through preferred WAN link as primary while others follow by. Ex. WiFi 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.		

Built-in 2 x serial ports(RS232/RS422/485)

Serial port with 2.5KV isolation on RS422/485

- Supports 2DI / 2DO (Digital Input / Output)
- Built-in Modbus gateway converting Modbus RTU/ASCII to Modbus/TCP for serial ports
- Optional DNP3 gateway with 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 or SMS**
- Graphic LTE & WIFI signal strength & TX/RX rate display
- Support SNTP to synchronize system clock
- Support LLDP discovery protocol
- Support DHCP Server and Client
- Built-in environmental monitoring for system input voltage, current and ambient temperature; Able to set alert when abnormal
- Dual image firmware* to choose which to start
- Firmware upgradeable through TFTP/FTP/HTTP
- Configuration backup and restoration
 - Supports text configuration file for system quick installation
 - USB port to upload/download configuration by USB dongle
 - InstaView**/InstaAir** for centralized configuration deployment, backup & upgrade
- Reset button for factory default mode
- Support editable captive portal login page
- Optional built-in USB to microSD** for storage backup or multimedia resource
- IP 30 housing for industrial environment
- Cloud/Host based InstaView/AIR** for fixed/fleet router management/configuration/monitoring
- DIN-Rail and Wall-mount** installation
- Operation temperature -20~70C or -40~70C(-E model)



Datasheet Version 5.4 www.lantechcom.tw | info@lantechcom.tw 5GHz: Up to 1300Mbps 2.4GHz: Up to 450Mbps

OFDM (BPSK, QPSK, 16-QAM, 64-QAM)

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OFDM (BPSK, QPSK, 16-QAM, 64-QAM,

IEEE 802.11 a/b/g/n ISM Band, 2.412GHz~2.472GHz, 5150MHz~5850MHz

IEEE802.11ac: up to 1300Mbps IEEE802.11b: 1 / 2 / 5.5 / 11 Mbps IEEE802.11a/g: 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54

IEEE802.11n: up to 450Mbps Output Power Tx +/- 2dB(per chain)

20/20dBm @ MCS0-MCS7 (HT20/40) Receiver Sensitivity Rx +/- 2dB ≤-95dBm @ 1-11Mbps ≤-92dBm @ 6-18Mbps ≤-88dBm @ 24Mbps ≤-85dBm @ 36Mbps ≤-81dBm @ 48Mbps ≤-80dBm @ 54Mbps ≤-94dBm @ MCS0 (HT20/40) ≤-76dBm @ MCS7 (HT20/40) Output Power Tx +/- 2dB(per chain)

WEP : (64-bit ,128-bit key supported)

EAP,MD5,EAP,TLS,EAP,TTLS,EAP MsCHAPv3 and PEAP **

encryption)

LTE:

1)

00/2300/2500 MHz

OKC** and 802.11r**

SSID broadcast disable**

GPS, Glonass (EUNA/Americas)

APAC & Australia (APAC model)

WPA /WPA2 : IEEE802.11i(WEP and AES

WPA-PSK (256-bit key pre-shared key supported)

GPS, Glonass, Beidou, Galileo (APAC model only)

2100/1800/850/2600/900/850/850/1500/700/2600/19

(B1/B3/B5/B7/B8/B18/B19/B21/B28/B38/B39/B40/B4

18dBm @ 1~11Mbps 18dBm @ 6~54Mbps

20dBm @ 6~24Mbps 16dBm @ 36~54Mbps 19/18dBm @ MCS0 (HT20/40) 16/16dBm @ MCS7 (HT20/40) 19/18/18dBm @ MCS0 (VHT20/40/80) 13/13/13dBm @ MCS8 (VHT20/40/80) 13/13dBm @ MCS9 (VHT40/80) Receiver Sensitivity Rx +/- 2dB ≦-92dBm @ 6~18Mbps ≤-86dBm @ 24Mbps ≦-84dBm @ 36Mbps \leq -81dBm @ 48Mbps \leq -80dBm @ 54Mbps ≦-93dBm @ MCS0 (HT20/40) ≦-71dBm/≦-80dBm @ MCS7 (HT20/40) ≤-90dBm @ MCS0 (VHT20/40/80) ≦-69dBm @ MCS8 (VHT20/40/80) ≦-66dBm @ MCS9 (VHT40/80)

802.11b: DSSS 802.11a/g:

802.11n:

802.11ac:

256-QAM)

Mbps



SPECIFICATION

WLAN Interface				
Operating Mode	AP/BRIDGE/Client modes			
Radio Frequency	DSSS, OFDM			
Туре				
Wireless Standard	IEEE 802.11ac/n/a 5GHz			
	IEEE 802.11b/g/n 2.4GHz			

Wireless bandwidth

Transmission Rate

Encryption Security

Wireless Security

Band Options

Cellular Interface

Modulation

	Ell & USA model
	EU & USA model LTE:
	2100/1800/2600/900/800 MHz
	(B1/B2/B3/B4/B5/B7/B12/B13/B20/B25/B26/B29/B30 /B41)
	/041)
	WorldWide (WW model)
	LTE: 2100/1900/1800/1700/850/2600/900/1800/700/700/8/
	50/850/800/850/700/2300/1500/2500/3500/3700/520
	0/3600/1700 (B1/B2/B3/B4/B5/B7/B8/B9/B12/B13/B18/B19/B20/B
	26/B28/B29/B30/B32/B41/B42/B43/B46/B48/B66)
Data Rates – LTE	APAC & Australia (APAC model) Downlink (Cat 6):
	FDD: 300 Mbps
	TDD: 222 Mbps
	Uplink (Cat 6): FDD: 50 Mbps
	TDD: 26 Mbps
	Americas (US model) / EMEA (EU model)
	Downlink (Category 3):
	100 Mbps (20 MHz bandwidth) 50 Mbps (10 MHz bandwidth)
	Uplink (Category 3):
	50 Mbps (20 MHz bandwidth) 25 Mbps (10 MHz bandwidth)
Software	
IPv6/4	Present
Fast Roaming **	802.11r <50ms(optional)
TWCC**	Optional Train Wireless Carriage Coupling for Auto wireless Coupling
Air-teaming**(2AC)	High sustainability with fail over link
WMM	Aggregated bandwidth WIFI multimedia and 802.11e traffic prioritization
VPN	Multi-site VPN, Open VPN, PPTP**, L2TP, IPSec
Firewall	DoS**, IP address filter / Mac address filter* / TCP/UDP port number
Load Balancing**	TCP/UDP port number 8 schemes for multiple WAN(client mode)
Load Balancing** Fixed(standard)	TCP/UDP port number
Load Balancing** Fixed(standard) Basic Package**	TCP/UDP port number 8 schemes for multiple WAN(client mode) Manually route by traffic type through fixed WAN link
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Load Balancing** Fixed(standard) Basic Package** Failover Priority Weighted Round-Robin Custom Route Full Package incl. B Sticky Session* Smallest load*	TCP/UDP port number 8 schemes for multiple WAN(client mode) Manually route by traffic type through fixed WAN link Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link failure occurs. Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Evenly distribute the traffic over all working WAN links in circular order according to the specified weights Routing through the selected WAN for each specific traffic ex: TCP/UDP port number and IP address. 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. 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
Load Balancing** Fixed(standard) Basic Package** Failover Priority Weighted Round-Robin Custom Route Full Package incl. B Sticky Session* Smallest load* Fastest*	TCP/UDP port number 8 schemes for multiple WAN(client mode) Manually route by traffic type through fixed WAN link Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link failure occurs. Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Evenly distribute the traffic over all working WAN links in circular order according to the specified weights Routing through the selected WAN for each specific traffic ex: TCP/UDP port number and IP address. asic package** 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. 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 Routes connections through the WAN link with lowest latency time. WEP64/128bits/ WPA/ WPA-PSK (TKIP*,AES)/ WPA2/WPA2-PSK
Load Balancing** Fixed(standard) Basic Package** Failover Priority Weighted Round-Robin Custom Route Full Package incl. B Sticky Session* Smallest load* Fastest*	TCP/UDP port number 8 schemes for multiple WAN(client mode) Manually route by traffic type through fixed WAN link Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link failure occurs. Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Evenly distribute the traffic over all working WAN links in circular order according to the specified weights Routing through the selected WAN for each specific traffic ex: TCP/UDP port number and IP address. asic package** 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. 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 Routes connections through the WAN link with lowest latency time. WEP64/128bits/WPA/WPA-PSK (TKIP*,AES)/
Load Balancing** Fixed(standard) Basic Package** Failover Priority Weighted Round-Robin Custom Route Full Package incl. B Sticky Session* Smallest load* Fastest* Security	TCP/UDP port number 8 schemes for multiple WAN(client mode) Manually route by traffic type through fixed WAN link Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link failure occurs. Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Evenly distribute the traffic over all working WAN links in circular order according to the specified weights Routing through the selected WAN for each specific traffic ex: TCP/UDP port number and IP address. asic package** 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. 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 Routes connections through the WAN link with lowest latency time. 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
Load Balancing** Fixed(standard) Basic Package** Failover Priority Weighted Round-Robin Custom Route Full Package incl. B Sticky Session* Smallest load* Fastest* Security	TCP/UDP port number 8 schemes for multiple WAN(client mode) Manually route by traffic type through fixed WAN link Routes connections through preferred WAN link while others stand-by. Sequentially activate another link if preferred link failure occurs. Routes connections through preferred WAN link while others stand-by. Sequentially activate other links if overflow occurs. Evenly distribute the traffic over all working WAN links in circular order according to the specified weights Routing through the selected WAN for each specific traffic ex: TCP/UDP port number and IP address. asic package** 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. Routes connections through the WAN link with highest free bandwidth ratio. The ratific load could be defined by downstream, upstream or total traffic Routes connections through the WAN link with lowest latency time. WEP64/128bits/ WPA/ WPA-PSK (TKIP*,AES)/ WPA2/WPA2-PSK (TKIP*,AES)/ SAH/STPS Radius Authentication, EAP-MD5, EAP-TLS,

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Industrial Multifunction Router + PoE Switch



Access Security	HTTP/HTTPS/Telnet/SSH & Administration;		RS232 8KV contact and 15KV air ESD
	SNMP*v1/v2/v3 access for authentication via		DIDO 3KV isolation
	MD5/SHA(v3) and Encryption via DES/AES(v3)		Input power 1.5KVA isolation
Protocol	PPPoE Client, DHCP server/client, Adjustable MTU,	Micro SD	128G or 256G(MSD model)
	Port forwarding (NAPT), DMZ; NAT, SNTP,	DI/DO	2 Digital Input (DI) :
	Firewall(Firewall(DoS**; IP address filter / Mac		Level 0: -30~2V / Level 1: 10~30V
	address filter* / TCP/UDP port name),VRRP**,		Max. input current:8mA
	DDNS*		2 Digital Output(DO): Open collector to 40 VDC,
Protocol Gateway	Modbus / DNP3** on serial ports		200mA
Management	SNMP*v1,v2c,v3/ Web/Telnet/CLI	LED Indicate	
Client mode	PMK** Caching and pre-authentication.	Power & System	Per unit: Power 1 (Green), Power 2 (Green), P-Fail
Environmental	System status for input voltage, current, ambient	indicator	(Red), Ring Master(Green), Storage(Green), Serial1/Serial2(Green)
Monitoring	temperature to be shown in GUI and sent alerting if	10/100/1000Base-T	Link/Activity (Green), Speed (Yellow), PoE (Green)
	any abnormal status	(X) port indicator	
Graphic signal	Graphic WIFI & LTE signal strength & TX/RX rate	SIM	Green for Link/Act
display	display	GPS	Green for Link/Act
Timer	Built-in Real Time Clock to keep track of time	Fault	Red: Ethernet link down or power down
	always(RTC)		a second s
Discovery	IEEE 802.1ab Link Layer Discovery Protocal (LLDP)	Fault contac	
SNMP trap	Device cold / warm start		Relay output to carry capacity of 1A at 24VDC
	Port link up / link down	Power	
_	DI/DO high / low	Input power	Single DC input, 9~56VDC (24V model)
Remote Web/SMS** control	To reboot router by WebUI or SMS**	PoE Budget Power consumption	80W@12V /80W@24V&48V 30.5 Watts
	Editable contine portal lacin page	(Typ.)	50.5 Walls
Captive portal Maintenance	Editable captive portal login page Firmware upgradeable through TFTP/FTP/HTTP	Physical Ch	aracteristic
Configuration	Supports text configuration file for system quick	Enclosure	IP 30 aluminum case
backup & restore	installation		74 (W) x 142 (D) x 152 (H) mm
	USB port to upload/download configuration by USB	Dimension Weight	1000g
	dongle		5
	InstaView**/InstaAir** for mass configuration/upgrade	Environmen	
Physical Po	rts & System	Storage Temperature	-40°C ~ 85°C (-40°F ~ 185°F)
Connectors	10/100/1000T: 6x ports RJ 45 (incl 4 PoE ports)	Operating	-20°C ~ 70°C (-4°F ~ 158°F)
Connectors	USB x 1	Temperature	-40°C ~ 70°C (-40°F ~ 158°F) for E model
	RS-232 connector: 1 x RJ 45	Operating Humidity	5% to 95% Non-condensing
	Serial connector : 2 DB9	Regulatory a	approvals
	SIM card slots : 4(2L) or 2(1L)	EMC	FCC* Part 15 Class A, EN55032*
	SMA connector : 6	EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS),
	Power & P-Fail connector: 1 x 6-pole terminal block		EN61000-4-4 (EFT), EN61000-4-5 (Surge),
	DIDO : 1 x 5-pole terminal block		EN61000-4-6 (CS), EN61000-4-8, EN61000-4-11
Serial Baud Rate	1000Kbps for RS232 ; 12Mbps for RS422/485	E-marking**	E13**
Serial Data Bits	5, 6, 7, 8	MTBF	NA
Serial Parity	odd, even, none, mark, space	Warranty	5 years
Serial Stop Bits	1, 1.5, 2		*Future Release
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND		**Optional
RS-422	Tx+,Tx-, Rx+, Rx-,GND		
RS-485 (2-wire)	Data+, Data-,GND		
Isolation protection	RS422/485 2.5KV isolation; 8KV contact & 15KV air		

RF Performance Table

	Data Rate	TX Power (per chain)	TX Power (3 chains)	Tolerance	RX Specifications Sensitivity	Tolerance
2.4GHz 802.11b	1Mbps	20dBm	25dBm	±2dB	-95dBm	±2dB
	2Mbps	20dBm	25dBm	±2dB	-94dBm	±2dB
	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
2.4GHz 802.11n	MCS 2	21dBm	26dBm	±2dB	-89dBm	±2dB
HT20	MCS 3	20dBm	25dBm	±2dB	-84dBm	±2dB
	MCS 4	20dBm	25dBm	±2dB	-83dBm	±2dB
	MCS 5	20dBm	25dBm	±2dB	-78dBm	±2dB

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	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
	MCS 3	18dBm	23dBm	±2dB	-83dBm	±2dB
5GHz 802.11n/ac	MCS 4	18dBm	23dBm	±2dB	-80dBm	±2dB
VHT20	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
	MCS 2	18dBm	23dBm	±2dB	-85dBm	±2dB
	MCS 3	17dBm	22dBm	±2dB	-82dBm	±2dB
5GHz	MCS 4	17dBm	22dBm	±2dB	-80dBm	±2dB
802.11n/ac	MCS 5	16dBm	21dBm	±2dB	-75dBm	±2dB
VHT40	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	MCS 5	16dBm	21dBm	±2dB	-78dBm	±2dB
VHT80	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

- IPWMR-3006-2L-1AC-2S-24V-EUNA......P/N: 8623-011 Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 2 RS232 serial ports and 6 Giga Port Switch incl.4 PoE; EU and US band; single 9~56VDC; -20~70C
- IPWMR-3006-2L-1AC-2S-24V-WW......P/N: 8623-012 Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 2 RS232 serial ports and 6

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Giga Port Switch incl.4 PoE; worldwide band; single 9~56VDC; -20~70C

- IPWMR-3006-2L-1AC-2S-24V-APAC.......P/N: 8623-013 Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 2 RS232 serial ports and 6 Giga Port Switch incl.4 PoE; APAC band; single 9~56VDC; -20~70C
- IPWMR-3006-2L-1AC-2SA-24V-APAC......P/N:8623-0132 Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/2 RS422/485 serial isolated ports and 6 Giga Port Switch incl.4 PoE; APAC band; dual 9~56VDC; -20~70C
- IPWMR-3006-2L-1AC-2SA-24V-WW......P/N:8623-0143 Industrial Dual LTE (Quad SIM) One WIFI 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/2 RS422/485 serial isolated ports and 6 Giga Port Switch incl.4 PoE: Worldwide band: dual 9~56VDC: -20~70C
- IPWMR-3006-1L-1AC-2S-24V-APAC.......P/N: 8623-022 Industrial One LTE (Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/2 RS232 serial ports and 6 Giga Port Switch incl.4 PoE; APAC band; single 9–56VDC; -20–70C
- IPWMR-3006-1L-1AC-2SA-24V-EUNA.......P/N:8623-0211 Industrial One LTE (Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/2 RS422/485 serial isolated ports and 6 Giga Port Switch incl.4 PoE; EU and US band; dual 9~56VDC; -20~70C
- IPWMR-3006-1L-1AC-2SA-24V-APAC......P/N:8623-0221 Industrial One LTE (Dual SIM) One WIFI 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/2 RS422/485 serial isolated ports and 6 Giga Port Switch incl.4 PoE; APAC band; dual 9–56VDC; -20–70C

- IPWMR-3006-1L-2AC-2S-24V-APAC......P/N: 8623-032 Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 2 RS232 serial ports and 6 Giga Port Switch incl.4 PoE; APAC band; single 9~56VDC; -20~70C
- IPWMR-3006-1L-2AC-2S-24V-WW......P/N: 8623-033 Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n Load Balancing** AP VPN Mobile Router w/ 2 RS232 serial ports and 6 Giga Port Switch incl.4 PoE; Worldwide band; single 9~56VDC; -20~70C
- IPWMR-3006-1L-2AC-2SA-24V-EUNA......P/N:8623-0311 Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n n Load Balancing** AP VPN Mobile Router w/2 RS422/485 serial isolated ports and 6 Giga Port switch EU and US band; dual 9~56VDC; -20~70C
- IPWMR-3006-1L-2AC-2SA-24V-APAC......P/N:8623-0321 Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n n Load Balancing** AP VPN Mobile Router w/2 RS422/485 serial isolated ports and 6 Giga Port Switch incl.4 PoE; APAC band; dual 9~56VDC; -20~70C
- IPWMR-3006-1L-2AC-2SA-24V-WW......P/N:8623-0331 Industrial One LTE (Dual SIM) Two WIFI 11ac/a/b/g/n n Load Balancing** AP VPN Mobile Router w/2 RS422/485 serial isolated ports and 6 Giga Port Switch incl.4 PoE; Worldwide band; dual 9~56VDC; -20~70C

Built-in Micro SD series

Built-in USB to MicroSD 128GB Module......P/N:8850-210

Built-in USB to MicroSD 256GB Module......P/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, EUNA 704-960/1710~2170MHZ, SMA plug, US

Wireless Connector Adapter

ADA11000052 RP SMA Jack Base, Length : 1M

Wireless Antenna

ANT11000051

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

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