IPWAP-3006

Industrial Multifunction VPN Router w/up to 2x WiFi 11ac + 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(2AC model)
- 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**, 802.11r standard
- 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**, L2 over GRE
- Load Balancing** support 8 mechanism
- Support NAT and Firewall
- Optional EMMC Flash storage on-board**
- Support Modbus gateway on serial ports
- Support 2 RS422/485 ports with 2.5KV isolation or 2x RS232 ports
- Input voltage selection 9~56VDC (24V model)
- Environmental monitoring for router inside info with voltage, current, temperature and total PoE load; WI-FI 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

Lantech IPWAP-3006 series is a next generation industrial multi-function VPN router w/up to 2x 802.3ac Wi-Fi + 6x Gigabit Ethernet switch incl. 4 PoE ports + 2 serial ports that supports advanced function of VPN, Load-balancing** (Basic & Full package), EMMC Flash storage**, TWCC**, Protocol gateway (Modbus), Storage**, and Wi-Fi roaming**.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

IPWAP-3006 supports series supports optional TWCC** (Train Wireless Carriage Coupling) that enables auto wireless coupling to reconnect APs.

IEEE 802.11ac dual band radio up to 2.6Gbps bandwidth With IEEE 802.11ac capability, IPWAP-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 Wi-Fi 11ac supports AP/BRIDGE/AP Client modes can be diverse for most of wireless application. Working with loadbalancing** "Priority" mode, the AP client can enable router to transmit on Wi-Fi 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.

Optional EMMC Flash storage**



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The optional EMMC flash storage on router can offer 8G/16G/32G capacity

MIMO technology with 3T3R and SMA type connectors

Lantech IPWAP-3006 series adapts MIMO technology with smart antenna transmission and reception for 3T3R. With six external detachable Omni connectors and optional antennas, IPWAP-3006 can have better Wi-Fi coverage.

802.11r fast roaming**

IPWAP-3006 support fast roaming** (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

IPWAP-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 IPWAP-3006 support up to 16 SSIDs, each SSID has its independent security and encryption.

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

IPWAP-3006 supports Load Balancing** for 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. 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	Routes connections through the

	Load*	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 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.

VPN and firewall

Besides traditional VPN peer to peer tunneling, IPWAP-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 , L2 over GRE , 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 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 IPWAP-3006 will immediately send email** and trap.

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

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

The IPWAP-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 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, and email**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 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 and upgrade firmware* through USB dongle for router replacement.

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

Editable login page of captive portal

The IPWAP-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**

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
- EMMC-FLASH storage**
- 6 SMA type connectors for Wi-Fi
- 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
- Fast roaming** (Optional) between APs by Wireless Controller
- 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

certificate

The IPWAP-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 E-marking certificate, the IPWAP-3006 is best for outdoor community, vehicle, process control automation etc. For more usage flexibilities, IPWAP-3006 supports wide operating temperature from -20°C to 70°C & -40°C to 70°C(-E model)

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 L2 over GRE , 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
- 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			
	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			

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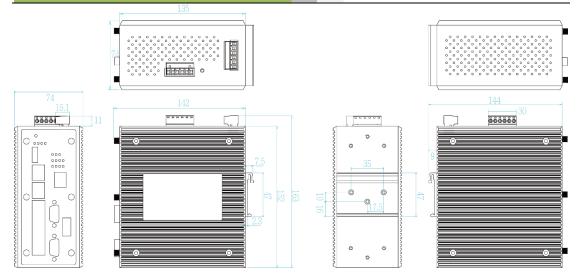


	bandwidth ratio. The ratio = 1 - (traffic load / the capability of a WAN link). The traffic load could be defined by downstream, upstream or total traffic
Fastest*	Routes connections through the WAN link with lowest latency time.

- 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
- Event alerting by Syslog, SNMP Trap, Email**, text, Relay ; Permanent local log rotation / Maxi 1K records
- Remote Web control to get status or re-boot by Web
- Graphic 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
 - Insta View**/InstaAir** for centralized configuration deployment, backup & upgrade
- Reset button for factory default mode
- Support editable captive portal login page
- 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)

DIMENSIONS (unit=mm)



SPECIFICATION

WLAN Interface		Operating Frequency	IEEE 802.11 a/b/g/n ISM Band,	
Operating Mode	AP/BRIDGE/Client modes		2.412GHz~2.472GHz, 5150MHz~5850MHz	
Radio Frequency	DSSS, OFDM	Transmission Rate	IEEE802.11ac: up to 1300Mbps	
Туре			IEEE802.11b: 1 / 2 / 5.5 / 11 Mbps	
Wireless Standard	IEEE 802.11ac/n/a 5GHz		IEEE802.11a/g: 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54	
	IEEE 802.11b/g/n 2.4GHz		Mbps	
Wireless bandwidth	5GHz: Up to 1300Mbps		IEEE802.11n: up to 450Mbps	
	2.4GHz: Up to 450Mbps	IEEE 802.11b/g/n(2.4Gbps	Output Power Tx +/- 2dB(per chain)	
Modulation	802.11b: DSSS 802.11a/g: OFDM (BPSK, QPSK, 16-QAM, 64-QAM)		18dBm @ 1~11Mbps	
)	18dBm @ 6~54Mbps	
			20/20dBm @ MCS0~MCS7 (HT20/40)	
	802.11n:		Receiver Sensitivity Rx +/- 2dB	
	OFDM (BPSK, QPSK, 16-QAM, 64-QAM) 802.11ac: OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-		≦-95dBm @ 1~11Mbps	
			≦-92dBm @ 6~18Mbps	
			≦-88dBm @ 24Mbps	
	QAM)		≦-85dBm @ 36Mbps	

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Industrial Multifunction Router + PoE Switch



		0010	10 1
	≦-81dBm @ 48Mbps	SSID Login Security	16 sets Supports IEEE802.1x** Authentication/RADIUS
	\leq -80dBm @ 54Mbps	Access Security	HTTP/HTTPS/Telnet/SSH & Administration;
	≦-94dBm @ MCS0 (HT20/40) ≦-76dBm @ MCS7 (HT20/40)	, , , , , , , , , , , , , , , , , , , ,	SNMP*v1/v2/v3 access for authentication via
IEEE	Output Power Tx +/- 2dB(per chain)		MD5/SHA(v3) and Encryption via DES/AES(v3)
802.11a/n/ac(5Gbps)	20dBm @ 6~24Mbps	Protocol	PPPoE Client, DHCP server/client, Adjustable MTU, Port forwarding (NAPT), DMZ; NAT, SNTP,
	16dBm @ 36~54Mbps		Firewall(Firewall(DoS**; IP address filter / Mac
	19/18dBm @ MCS0 (HT20/40)		address filter* / TCP/UDP port name),VRRP**,
	16/16dBm @ MCS7 (HT20/40)		DDNS*
	19/18/18dBm @ MCS0 (VHT20/40/80)	Protocol Gateway	Modbus on serial ports
	13/13/13dBm @ MCS8 (VHT20/40/80)	Management	SNMP*v1,v2c,v3/ Web/Telnet/CLI
	13/13dBm @ MCS9 (VHT40/80)	Client mode	PMK** Caching and pre-authentication.
	Receiver Sensitivity Rx +/- 2dB	Environmental	System status for input voltage, current, ambient
	≦-92dBm @ 6~18Mbps ≦-86dBm @ 24Mbps	Monitoring	temperature to be shown in GUI and sent alerting if any abnormal status
	≦-84dBm @ 36Mbps	Graphic signal	Graphic WIFI signal strength & TX/RX rate display
	≦-81dBm @ 48Mbps	display	
	≦-80dBm @ 54Mbps	Timer	Built-in Real Time Clock to keep track of time
	≦-93dBm @ MCS0 (HT20/40)	D '	always(RTC)
	≦-71dBm/≦-80dBm @ MCS7 (HT20/40)	Discovery SNMP trap	IEEE 802.1ab Link Layer Discovery Protocal (LLDP) Device cold / warm start
	≦-90dBm @ MCS0 (VHT20/40/80)	Sinivir trap	Port link up / link down
	≦-69dBm @ MCS8 (VHT20/40/80)		DI/DO high / low
	≦-66dBm @ MCS9 (VHT40/80)	Remote Web	To reboot router by WebUI
Encryption Security	WEP: (64-bit ,128-bit key supported)	control	
	WPA /WPA2 : IEEE802.11i(WEP and AES encryption)	Captive portal Maintenance	Editable captive portal login page Firmware upgradeable through TFTP/FTP/HTTP
	encryption) WPA-PSK (256-bit key pre-shared key supported)	Configuration	Supports text configuration file for system quick
	OKC** and 802.11r**	backup & restore	installation
	EAP,MD5,EAP,TLS,EAP,TTLS,EAP		USB port to upload/download configuration by USB
	MsCHAPv3 and PEAP **		dongle InstaView**/InstaAir** for mass configuration/upgrade
Wireless Security	SSID broadcast disable**	Physical Po	rts & System
Software		Connectors	10/100/1000T: 6x ports RJ 45 (incl 4 PoE ports)
IPv6/4	Present	Connectors	USB x 1
Fast Roaming **	802.11r (optional)		RS-232 connector: 1 x RJ 45
TWCC**	Optional Train Wireless Carriage Coupling for Auto wireless Coupling		Serial connector : 2 DB9
Air-teaming**(2AC)	High sustainability with fail over link		SMA connector : 6 Power & P-Fail connector: 1 x 6-pole terminal block
14/15 45 A	Aggregated bandwidth		DIDO : 1 x 5-pole terminal block
WMM VPN	WIFI multimedia and 802.11e traffic prioritization Multi-site VPN, Open VPN, PPTP**, L2TP, IPSec,	Serial Baud Rate	1000Kbps for RS232 ; 12Mbps for RS422/485
	L2 over GRE	Serial Data Bits	5, 6, 7, 8
Firewall	DoS**, IP address filter / Mac address filter* /	Serial Parity	odd, even, none, mark, space
Lood Delensingtt	TCP/UDP port number	Serial Stop Bits RS-232	1, 1.5, 2 TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
Load Balancing**	8 schemes for multiple WAN(client mode) Manually route by traffic type through fixed WAN link.	RS-422	Tx+,Tx-, Rx+, Rx-,GND
Fixed(standard) Basic Package**		RS-485 (2-wire)	Data+, Data-, GND
Failover		Isolation protection	
		1301ation protection	RS422/485 2.5KV isolation; 8KV contact & 15KV air
	Routes connections through preferred WAN link		RS232 8KV contact and 15KV air ESD
	while others stand-by. Sequentially activate another		RS232 8KV contact and 15KV air ESD DIDO 3KV isolation
Priority	while others stand-by. Sequentially activate another link if preferred link failure occurs.	Micro SD	RS232 8KV contact and 15KV air ESD
Priority	while others stand-by. Sequentially activate another link if preferred link failure occurs. Routes connections through preferred WAN link		RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 Digital Input (DI) :
Priority	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	Micro SD	RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 Digital Input (DI) : Level 0: -30-2V / Level 1: 10-30V
	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.	Micro SD	RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 Digital Input (DI) : Level 0: -30-2V / Level 1: 10~30V Max. input current:8mA
Weighted Round-	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	Micro SD	RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 Digital Input (DI) : Level 0: -30-2V / Level 1: 10-30V
	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	Micro SD	RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 Digital Input (DI) : Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA
Weighted Round- Robin	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	Micro SD DI/DO	RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 Digital Input (DI) : Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA DIS Per unit: Power 1 (Green), Power 2 (Green), P-Fail
Weighted Round-	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	Micro SD DI/DO LED Indicato	RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 Digital Input (DI) : Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA DIS Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Ring Master(Green), Storage(Green),
Weighted Round- Robin Custom Route Full Package incl. Ba	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.	Micro SD DI/DO LED Indicat o Power & System	RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 Digital Input (DI) : Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA DIS Per unit: Power 1 (Green), Power 2 (Green), P-Fail
Weighted Round- Robin Custom Route	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.	Micro SD DI/DO LED Indicate Power & System indicator 10/100/1000Base- T(X) port indicator	RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 Digital Input (DI) : Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA DIS Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Ring Master(Green), Storage(Green), Serial1/Serial2(Green), Ready(Green) Link/Activity (Green), Speed (Yellow), PoE (Green)
Weighted Round- Robin Custom Route Full Package incl. Ba	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. sic package**	Micro SD DI/DO LED Indicato Power & System indicator 10/100/1000Base- T(X) port indicator Fault	RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 Digital Input (DI) : Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA D IS Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Ring Master(Green), Storage(Green), Serial1/Serial2(Green), Ready(Green) Link/Activity (Green), Speed (Yellow), PoE (Green) Red: Ethernet link down or power down
Weighted Round- Robin Custom Route Full Package incl. Ba	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. sic 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	Micro SD DI/DO LED Indicato Power & System indicator 10/100/1000Base- T(X) port indicator Fault Fault contaco	RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 Digital Input (DI) : Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA DIS Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Ring Master(Green), Storage(Green), Serial1/Serial2(Green), Ready(Green) Link/Activity (Green), Speed (Yellow), PoE (Green) Red: Ethernet link down or power down
Weighted Round- Robin Custom Route Full Package incl. Ba Sticky Session*	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. sic 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.	Micro SD DI/DO LED Indicato Power & System indicator 10/100/1000Base- T(X) port indicator Fault Fault contac Relay	RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 Digital Input (DI) : Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA D IS Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Ring Master(Green), Storage(Green), Serial1/Serial2(Green), Ready(Green) Link/Activity (Green), Speed (Yellow), PoE (Green) Red: Ethernet link down or power down
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Weighted Round- Robin Custom Route Full Package incl. Ba Sticky Session*	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. sic 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.	Micro SD DI/DO LED Indicato Power & System indicator 10/100/1000Base- T(X) port indicator Fault Fault contac Relay	RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 Digital Input (DI) : Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA DIS Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Ring Master(Green), Storage(Green), Serial1/Serial2(Green), Ready(Green) Link/Activity (Green), Speed (Yellow), PoE (Green) Red: Ethernet link down or power down
Weighted Round- Robin Custom Route Full Package incl. Ba Sticky Session*	 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. sic 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. 	Micro SD DI/DO DI/DO DI/DO DI/DO Power & System indicator 10/100/1000Base- T(X) port indicator Fault Fault contact Relay Power Input power PoE Budget Power consumption	RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 Digital Input (DI) : Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA DTS Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Ring Master(Green), Storage(Green), Serial1/Serial2(Green), Ready(Green) Link/Activity (Green), Speed (Yellow), PoE (Green) Red: Ethernet link down or power down t Relay output to carry capacity of 1A at 24VDC Single DC input, 9-56VDC (24V model)
Weighted Round- Robin Custom Route Full Package incl. Ba Sticky Session*	 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. stc 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 	Micro SD DI/DO DI/DO DI/DO DI/DO Power & System indicator 10/100/1000Base- T(X) port indicator Fault Fault contact Relay Power Input power PoE Budget Power consumption (Typ.)	RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 Digital Input (DI) : Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA DTS Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Ring Master(Green), Storage(Green), Serial1/Serial2(Green), Ready(Green) Link/Activity (Green), Speed (Yellow), PoE (Green) Red: Ethernet link down or power down Ct Relay output to carry capacity of 1A at 24VDC Single DC input, 9-56VDC (24V model) 80W@12V /80W@24V&48V 30.5 Watts
Weighted Round- Robin Custom Route Full Package incl. Ba Sticky Session*	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. sic 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	Micro SD DI/DO DI/DO DI/DO DI/DO DI/DO Power & System indicator 10/100/1000Base- T(X) port indicator Fault Fault contaco Relay Power PoE Budget Power consumption (Typ.) Physical Ch	RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 Digital Input (DI) : Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA DTS Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Ring Master(Green), Storage(Green), Serial1/Serial2(Green), Ready(Green) Link/Activity (Green), Speed (Yellow), PoE (Green) Red: Ethernet link down or power down Ct Relay output to carry capacity of 1A at 24VDC Single DC input, 9-56VDC (24V model) 80W@12V /80W@24V&48V 30.5 Watts aracteristic
Weighted Round- Robin Custom Route Full Package incl. Ba Sticky Session*	 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. sic 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 	Micro SD DI/DO DI/DO DI/DO DI/DO DI/DO Power & System indicator 10/100/1000Base- T(X) port indicator Fault Fault contact Relay Power PoE Budget Power consumption (Typ.) Physical Ch Enclosure	RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 Digital Input (DI) : Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA DTS Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Ring Master(Green), Storage(Green), Serial1/Serial2(Green), Ready(Green) Link/Activity (Green), Speed (Yellow), PoE (Green) Red: Ethernet link down or power down Et Relay output to carry capacity of 1A at 24VDC Single DC input, 9-56VDC (24V model) 80W@12V /80W@24V&48V 30.5 Watts aracteristic IP 30 aluminum case
Weighted Round- Robin Custom Route Full Package incl. Ba Sticky Session* Smallest load*	 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. sic 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. 	Micro SD DI/DO DI/DO DI/DO Power & System indicator 10/100/1000Base- T(X) port indicator Fault Fault contac Relay Power Input power PoE Budget Power consumption (Typ.) Physical Ch Enclosure Dimension	RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 bigital Input (DI) : Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 bigital Output(DO): Open collector to 40 VDC, 200mA DTS Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Ring Master(Green), Storage(Green), Serial1/Serial2(Green), Ready(Green) Link/Activity (Green), Speed (Yellow), PoE (Green) Red: Ethernet link down or power down t Relay output to carry capacity of 1A at 24VDC Single DC input, 9–56VDC (24V model) 80W@ 12V /80W@24V&48V 30.5 Watts aracteristic IP 30 aluminum case 74 (W) x 142 (D) x 152 (H) mm
Weighted Round- Robin Custom Route Full Package incl. Ba Sticky Session*	 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. sic 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 	Micro SD DI/DO DI/DO DI/DO Power & System indicator 10/100/1000Base- T(X) port indicator Fault Fault contac Relay PoE Budget PoKer Input power PoE Budget Power consumption (Typ.) Physical Ch Enclosure Dimension Weight	RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 Digital Input (DI) : Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA DIS Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Ring Master(Green), Storage(Green), Serial/Serial2(Green) ,Ready(Green) Link/Activity (Green), Ready(Green) Link/Activity (Green), Speed (Yellow), PoE (Green) Red: Ethernet link down or power down Ct Relay output to carry capacity of 1A at 24VDC Single DC input, 9-56VDC (24V model) 80W@12V /80W@24V&48V 30.5 Watts aracteristic IP 30 aluminum case 74 (W) x 142 (D) x 152 (H) mm 1000g
Weighted Round- Robin Custom Route Full Package incl. Ba Sticky Session* Smallest load* Fastest* Security	 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. sic 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 	Micro SD DI/DO DI/DO DI/DO Power & System indicator 10/100/1000Base- T(X) port indicator Fault Fault contac Relay Power Input power PoE Budget Power consumption (Typ.) Physical Ch Enclosure Dimension	RS232 8KV contact and 15KV air ESD DIDO 3KV isolation Input power 1.5KVA isolation 128G or 256G(MSD model) 2 Digital Input (DI) : Level 0: -30-2V / Level 1: 10-30V Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC, 200mA DIS Per unit: Power 1 (Green), Power 2 (Green), P-Fail (Red), Ring Master(Green), Storage(Green), Serial/Serial2(Green) ,Ready(Green) Link/Activity (Green), Ready(Green) Link/Activity (Green), Speed (Yellow), PoE (Green) Red: Ethernet link down or power down Ct Relay output to carry capacity of 1A at 24VDC Single DC input, 9-56VDC (24V model) 80W@12V /80W@24V&48V 30.5 Watts aracteristic IP 30 aluminum case 74 (W) x 142 (D) x 152 (H) mm 1000g
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Datasheet Version 5.6

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Industrial Multifunction Router + PoE Switch



Temperature Operating Humidity	-40°C ~ 70°C (-40°F ~ 140°F) for E model 5% to 95% Non-condensing	E-marking** MTBF	E13** NA	
Regulatory approvals		Warranty	5 years	
EMC	FCC* Part 15 Class A, EN55032*			*Future Release
EMS	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			**Optional

	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	-93dBm	±2dB
2.4GHz	18Mbps	21dBm	26dBm	±2dB	-90dBm	±2dB
802.11g	24Mbps	21dBm	26dBm	±2dB	-90dBm	±2dB
	36Mbps	20dBm	25dBm	±2dB	-85dBm	±2dB
	48Mbps	19dBm	24dBm	±2dB	-82dBm	±2dB
	54Mbps	18dBm	23dBm	±2dB	-80dBm	±2dB
	MCS 0	21dBm	26dBm	±2dB	-94dBm	±2dB
	MCS 1	21dBm	26dBm	±2dB	-92dBm	±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	-80dBm	±2dB
	MCS 6	18dBm	23dBm	±2dB	-79dBm	±2dB
	MCS 7	16dBm	21dBm	±2dB	-77dBm	±2dB
	MCS 0	20dBm	25dBm	±2dB	-93dBm	±2dB
	MCS 1	20dBm	25dBm	±2dB	-91dBm	±2dB
	MCS 2	20dBm	25dBm	±2dB	-89dBm	±2dB
2.4GHz	MCS 3	19dBm	24dBm	±2dB	-84dBm	±2dB
802.11n HT40	MCS 4	19dBm	24dBm	±2dB	-82dBm	±2dB
	MCS 5	19dBm	24dBm	±2dB	-80dBm	±2dB
	MCS 6	18dBm	23dBm	±2dB	-79dBm	±2dB
	MCS 7	16dBm	21dBm	±2dB	-75dBm	±2dB

Industrial Multifunction Router + PoE Switch



	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	-91dBm	±2dB
802.11a	24Mbps	20dBm	25dBm	±2dB	-90dBm	±2dB
	36Mbps	18dBm	23dBm	±2dB	-86dBm	±2dB
	48Mbps	16dBm	21dBm	±2dB	-83dBm	±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	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 802.11n/ac	MCS 4	17dBm	22dBm	±2dB	-80dBm	±2dB
VHT40	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 802.11ac	MCS 4	17dBm	22dBm	±2dB	-80dBm	±2dB
VHT80	MCS 5	16dBm	21dBm	±2dB	-78dBm	±2dB
	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

IPWAP-3006-1AC-2S-24V......P/N: 8625-011

- 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; single 9~56VDC; -20~70C
- IPWAP-3006-1AC-2SA-24V......P/N:8625-012
 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; dual 9~56VDC; -20~70C
 IPWAP-3006-2AC-2S-24V......P/N: 8625-013
 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; single 9~56VDC; -20~70C
- IPWAP-3006-2AC-2SA-24V......P/N:8625-014 Two 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; dual 9~56VDC; -20~70C

EMMC Flash Storage

- BG.....P/N:8850-113
- 16G.....P/N:8850-114



32G.....P/N:8850-115

Software License

- LOAD BALANCING Basic Package.....P/N: 9000-101
- LOAD BALANCING Full Package.....P/N: 9000-102
- TWCC......P/N: 9000-103
- WIRELESS ROAMING......P/N: 9000-107

OPTIONAL ACCESSORIES

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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