I(P)WAP-3006 Industrial Multifunction VPN Router w/up to 2x WiFi 11ac + 2 serial ports** + 6 Gigabit Ethernet Switch(incl. 4 PoE) w/ Load Balancing, VPN, Protocol Gateway, Storage**; 24V input Up to 2 concurrent WIFI 11ac and redundancy(2AC model) Built-in 6 Gigabit Ethernet managed switch PoE model including 4 PoE at/af w/budget 80W . Managed Switch functions cover port management, QOS, VLAN, multicast, redundant ring and security function 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 antennas Support Client-base roaming Supports AP/ Bridge/Client/MESH modes Support 802.11s Wireless Mesh Network Advanced wireless security WEP64/128bits/ WPA/ WPA-PSK (TKIP,AES)/ WPA2/ WPA2-PSK (TKIP.AES) -VPN router for Multi-site VPN, OpenVPN, L2TP over IPsec, IPsec, PPTP, L2 over GRE , IPGRE Load Balancing built-in 5 mechanism Support NAT and Firewall Optional EMMC Flash storage on-board** Support Modbus gateway on serial ports** Support 2 RS422/RS485 ports or 2x RS232 ports Dual input voltage selection 9~56VDC (24V model) Vehicle E-marking** certificate Environmental monitoring for router inside info with voltage, current, temperature and total PoE load; WI-FI graphic signal strength 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 I(P)WAP-3006 series is a next generation industrial multi-function VPN router w/up to 2x 802.11ac Wi-Fi + 6x Gigabit Ethernet managed switch incl. 4 PoE ports (PoE model) + 2 serial ports** that supports advanced function of VPN, Load-Balancing, EMMC Flash storage**, Protocol gateway (Modbus), and Wi-Fi roaming. The dual core CPU with 1.6GHz + 256M flash enables the router to multi-task smoothly.

IEEE 802.11ac dual band radio up to 2.6Gbps bandwidth

With IEEE 802.11ac capability, I(P)WAP-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 load-Balancing "Priority" mode, the AP client can enable router to transmit on Wi-Fi with first priority.

Support AP/Bridge/Client mode, Mesh roaming

I(P)WAP-3006 supports AP/Bridge/Client mode for different applications.

It also supports client-base roaming to swap between the APs in a network.

Built-in Wireless Mesh network (WMN)

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I(P)WAP-3006 supports Mesh network composed of different nodes. The set of SSIDs allow the wireless client to roam freely without the need for complicated account management. With Mesh protocol, it can provide a reliable, scalable, stable and seamless network topology.

Optional EMMC Flash storage**

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

MIMO technology with 3T3R and SMA type connectors

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

Wireless WMM QoS

I(P)WAP-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 I(P)WAP-3006 support up to 16 SSIDs, each SSID has its independent security and encryption.

Load Balancing with 5 mechanism for multi-WANs

I(P)WAP-3006 supports Load Balancing for WAN connections. There are five schemes for Load Balancing function:

Pack	Algorithm	Description	
Basic	Fixed	All traffic will be distributed to a single WAN.	
	Failover	Routes connections through preferred WAN link while others stand-by. Sequentially activating another link if the preferred link fails.	
	Priority	Select the active WAN according to priority.	
	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.	

2 port serial connection, Modbus gateway

It builds in 2 port serial connection for RS232, RS422, RS485.

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, I(P)WAP-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, OpenVPN, L2TP over IPsec, IPsec, PPTP, L2 over GRE, IPGRE, and NAT for various VPN applications.

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

Support Routing Protocol: Static route / RIPv2 / OSPF / BGP / EIGRP

Lantech router series supports two routing methods: static routing and dynamic routing. Dynamic routing makes use of RIPv2, OSPF, EIGRP and BGP. The user can either choose one routing method to establish the routing table.

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 I(P)WAP-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 (24V Model); PoE model built-in 6 port PoE at/af switch with 80W budget The I(P)WAP-3006 is able to work from 9VDC to 56VDC and PoE model built-in 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

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.

Built-in Managed Switch Function

Managed switch function is built-in and provides various L2+ functions for network access deployment. It delivers ports and PoE management, VLAN, QoS, multicast, redundant ring, and security functions.

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.

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Editable login page of captive portal

The I(P)WAP-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 I(P)WAP-3006 is designed to meet with industrial network environment with IP 30 housing. It passed serious tests under

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 managed switch
- PoE model incl. 4 PoE at/af for PoE budget 80W
- 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**8/16/32G
- 6 SMA type connectors for Wi-Fi
- 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
- 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-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 AP/Bridge/Client/MESH mode
- Support Client-base roaming
- Support 802.11s Wireless Mesh Network
- Support Multi-Site VPN for Mesh tunneling as well as Open VPN, L2TP over IPsec, IPsec, PPTP, L2 over GRE, IPGRE and NAT for secured network connection
- Support Routing Protocol: Static route / RIPv2 / OSPF / BGP / EIGRP

extensive Industrial EMI and environmental vibration and shocks standards.

With CE & FCC radio certification for WIFI and E-marking** certificate, the I(P)WAP-3006 is best for outdoor community, vehicle, process control automation etc application. For more usage flexibilities, I(P)WAP-3006 supports wide operating temperature from -20°C to 70°C & -40°C to 70°C (-E model)

- The built-in Layer-4 firewall includes DDoS, IP address filter / Mac address filter / TCP/UDP port number
- NAT/DMZ/Port Forwarding
- Support SNMP v1/v2c/v3
- Load Balancing supports 5 mechanism between multiple WANs

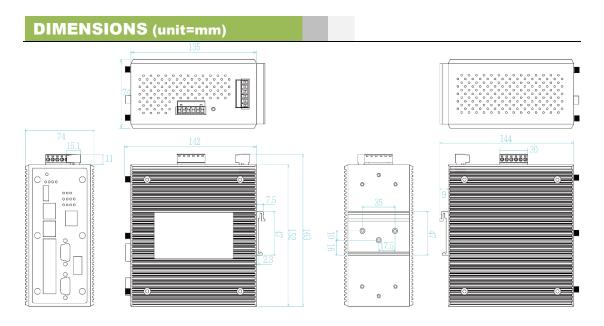
Pack	Algorithm	Description	
Basic	Fixed	All traffic will be distributed to a single WAN.	
	Failover	Routes connections through preferred WAN link while others stand-by. Sequentially activating another link if the preferred link fails.	
	Priority	Select the active WAN according to priority.	
	Weighted 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.	

- Built-in 2 x serial ports**(RS232/RS422/RS485)
- 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
- 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/ HTTP
- Configuration backup and restoration
 - Supports text configuration file for system quick installation

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- USB port to upload/download configuration by USB dongle
- Reset button for factory default mode
- Support editable captive portal login page
- IP 30 housing for industrial environment
- DIN-Rail and Wall-mount** installation
- Operation temperature -20~70C or -40~70C (-E model)



SPECIFICATION

WLAN Interfa	ICe		16dBm @ 36~54Mbps
Radio Frequency	DSSS, OFDM		19/18dBm @ MCS0 (HT20/40)
Туре			16/16dBm @ MCS7 (HT20/40)
Wireless Standard	IEEE 802.11ac/n/a 5GHz		19/18/18dBm @ MCS0 (VHT20/40/80)
	IEEE 802.11b/g/n 2.4GHz		13/13/13dBm @ MCS8 (VHT20/40/80)
Wireless bandwidth	5GHz: Up to 1300Mbps		13/13dBm @ MCS9 (VHT40/80)
	2.4GHz: Up to 450Mbps		Receiver Sensitivity Rx +/- 2dB
Modulation	802.11b: DSSS		≦-92dBm @ 6~18Mbps
	802.11a/g:		≦-86dBm @ 24Mbps
	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)		≦-84dBm @ 36Mbps
	802.11n:		≦-81dBm @ 48Mbps
	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)		≦-80dBm @ 54Mbps
	802.11ac:		≦-93dBm @ MCS0 (HT20/40)
	OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-		≦-71dBm/≦-80dBm @ MCS7 (HT20/40)
	QAM)		≦-90dBm @ MCS0 (VHT20/40/80)
Operating Frequency	IEEE 802.11 a/b/g/n ISM Band,		≦-69dBm @ MCS8 (VHT20/40/80)
operating riequeriey	2.412GHz~2.472GHz, 5150MHz~5850MHz		≦-66dBm @ MCS9 (VHT40/80)
Transmission Rate	IEEE802.11ac: up to 1300Mbps	Encryption Security	WEP : (64-bit ,128-bit key supported)
Tranomiosion Rate	IEEE802.11b: 1 / 2 / 5.5 / 11 Mbps		WPA/WPA2:IEEE802.11i(WEP and AES encryption)
	IEEE802.11a/g: 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54		WPA-PSK (256-bit key pre-shared key supported)
	Mbps		EAP-TLS,EAP-TTLS, PEAP
	IEEE802.11n: up to 450Mbps	Wireless Security	SSID broadcast disable
IEEE	Output Power Tx +/- 2dB(per chain)	Software	
802.11b/g/n(2.4Gbps	18dBm @ 1~11Mbps	IPv6/4	Present
	18dBm @ 6~54Mbps	Operating Mode	AP/Bridge/Client/MESH modes
	20/20dBm @ MCS0~MCS7 (HT20/40)	WMM	WIFI multimedia and 802.11e traffic prioritization
	Receiver Sensitivity Rx +/- 2dB	VPN	Multi-site VPN, Open VPN, PPTP, L2TP over IPSec,
	≦-95dBm @ 1~11Mbps	Firewall	IPSec, L2 over GRE, IPGRE and NAT
	≦-92dBm @ 6~18Mbps	Firewall	DDoS, IP address filter / Mac address filter /
	≦-88dBm @ 24Mbps	Load Balancing	TCP/UDP port number
	≦-85dBm @ 36Mbps	Basic	5 schemes for multiple WAN
	≦-81dBm @ 48Mbps		All traffic will be distributed to a single WAN.
	≦-80dBm @ 54Mbps	Fixed	· · · · ·
	≦-94dBm @ MCS0 (HT20/40)	Failover	Routes connections through preferred WAN link
	≦-76dBm @ MCS7 (HT20/40)		while others stand-by. Sequentially activating another
IEEE	Output Power Tx +/- 2dB(per chain)		link if the preferred link fails.
802.11a/n/ac(5Gbps)	20dBm @ 6~24Mbps	Priority	Select the active WAN according to priority.

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Industrial Multifunction Router + (PoE) Switch



		Isolation protection	Input power to I/O: 1.5KV isolation
Weighted Round-	Evenly distribute the traffic over all working WAN	Isolation protection	Input power to Ethernet 1.5KV isolation
Robin	links in circular order according to the specified		Input power to PoE port 1.5KV isolation (PoE model
	weights	EMMC Storage**	8/16/32 GB
Custom Route	Routing through the selected WAN for each specific	DI/DO	2 Digital Input (DI) :
	traffic ex: TCP/UDP port number and IP address.		Level 0: -30~2V / Level 1: 10~30V
Security	WEP64/128bits/ WPA/ WPA-PSK (TKIP,AES)/ WPA2/		Max. input current:8mA
	WPA2-PSK (TKIP,AES)/SSH/SSL/HTTPS		2 Digital Output(DO): Open collector to 40 VDC,
Roaming	Client-base roaming		200mA
MESH	Support 802.11s Wireless Mesh Network	LED Indicat	ors
Authentication	Radius Authentication, EAP-TLS, EAP-TTLS, PEAP;		Per unit: Power 1 (Green), Power 2 (Green), P-Fail
SSID	SSID broadcast disable supported 16 sets	Power & System indicator	(Red), Ring Master(Green), Storage(Green),
Login Security	Supports IEEE802.1x Authentication/RADIUS	Indicator	Serial1/Serial2(Green) ,Ready(Green)
Access Security	HTTP/HTTPS/Telnet/SSH & Administration; SNMP	10/100/1000Base-	Link/Activity (Green), Speed (1000T: Yellow;
Access Security	v1/v2/v3 access for authentication via MD5/SHA(v3)	T(X) port indicator	10/100TX: off), PoE (Green, PoE model)
	and Encryption via DES/AES(v3)	Fault	Red: Ethernet link down or power down
Protocol	PPPoE Client, DHCP server/client, Adjustable MTU,	Fault contac	ct
FIOLOCOI	Port forwarding (NAPT), DMZ; NAT, SNTP,	Relay Relay output to carry capacity of 1A at 24VDC	
	Firewall(Firewall(DDoS; IP address filter / Mac		
	address filter / TCP/UDP port name), VRRP, DDNS	Power	
Routing	Static route / RIPv2 / OSPF / BGP / EIGRP	Input power	Dual DC input, 9~56VDC (24V model)
Protocol Gateway	Modbus on serial ports**	PoE Budget (PoE model)	80W@12V /80W@24V&48V
Management	SNMP v1,v2c,v3/ Web/Telnet/CLI	Power consumption	30.5 Watts
		(Typ.)	
Environmental	System status for input voltage, current , ambient		aracteristic
Monitoring	temperature to be shown in GUI and sent alerting if	Physical Characteristic	
	any abnormal status		
Graphic signal	Graphic WIFI signal strength	Dimension	74 (W) x 142 (D) x 152 (H) mm
display		Weight	900g
Timer	Built-in Real Time Clock to keep track of time	Environmen	
	always(RTC)	Storage	-40°C ~ 85°C (-40°F ~ 185°F)
Discovery	IEEE 802.1ab Link Layer Discovery Protocal (LLDP)	Temperature	
SNMP trap	Device cold / warm start	Operating	-20°C ~ 70°C (-4°F ~ 158 °F)
	Port link up / link down	Temperature Operating Humidity	-40°C ~ 70°C (-40°F ~ 158 °F) -E Model 5% to 95% Non-condensing
	DI/DO high / low		
Remote Web	To reboot router by WebUI	Regulatory approvals	
control		Safety	EN 62368
Captive portal	Editable captive portal login page	EMC	FCC Part 15B Class A,
Maintenance	Firmware upgradeable through TFTP/ HTTP		EN 55032: 2015,
Configuration	Supports text configuration file for system quick		EN 55024: 2010
backup & restore	installation		IEC 61000-6-2,
	USB port to upload/download configuration by USB		IEC 61000-6-4
	dongle	EMS	IEC 61000-4-2 (ESD),
Physical Po	orts & System		IEC 61000-4-3 (RS),
Connectors	10/100/1000T: 6x ports RJ 45 (PoE model incl 4 PoE		IEC 61000-4-4 (EFT),
	ports)		IEC 61000-4-5 (Surge),
	USB x 1		IEC 61000-4-6 (CS),
	RS-232 connector: 1 x RJ 45		IEC 61000-4-8 (PFMF)
	Serial connector : 2 DB9	Radio Frequency	EN 301 489-1,
	RP-SMA connector for Wi-Fi 2AC: 6 (female)		EN 301 489-17,
	RP-SMA connector for Wi-Fi 1AC: 3 (female)		EN 301 489-19,
	Power & P-Fail connector: 1 x 6-pole terminal block		EN 301 489-52
	DIDO : 1 x 5-pole terminal block		EN 302 502,
Serial Baud Rate	1000Kbps for RS232 ; 12Mbps for RS422/RS485		EN 301 893,
Serial Data Bits	5, 6, 7, 8		EN 300 328,
Serial Parity	odd, even, none, mark, space		EN 62311
Serial Stop Bits	1, 1.5, 2	Vehicle certificate	E13**
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND	MTBF	NA
RS-422	Txb, Rxb, RTS, CTS, DTR, DSR, DCD, GND Tx+,Tx-, Rx+, Rx-,GND	Warranty	5 years
RS-422 RS-485 (2-wire)			*Future Release
(2-wile)	Data+, Data-,GND		**Optional



	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	-93dBm	±2dB
2.4GHz	18Mbps	21dBm	26dBm	±2dB	-90dBm	±2dB
302.11g	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
.4GHz	MCS 3	20dBm	25dBm	±2dB	-84dBm	±2dB
02.11n 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
2.4GHz 802.11n HT40	MCS 2	20dBm	25dBm	±2dB	-89dBm	±2dB
	MCS 3	19dBm	24dBm	±2dB	-84dBm	±2dB
	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



	Data Rate	TX Power (per chain)	TX Power (3 chains)	Tolerance	RX Specifications Sensitivity	Tolerance
5GHz 802.11a	6Mbps	20dBm	25dBm	±2dB	-94dBm	±2dB
	9Mbps	20dBm	25dBm	±2dB	-94dBm	±2dB
	12Mbps	20dBm	25dBm	±2dB	-92dBm	±2dB
	18Mbps	20dBm	25dBm	±2dB	-91dBm	±2dB
	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	MCS 4	17dBm	22dBm	±2dB	-80dBm	±2dB
802.11n/ac 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	MCS 4	17dBm	22dBm	±2dB	-80dBm	±2dB
802.11ac 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 INFORMATION

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

 IPWAP-3006-1AC-24V......P/N: 8625-017
 One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router and 6 Giga Port Managed Switch incl.4 PoE; dual input 9~56VDC; -20~70C

 IPWAP-3006-1AC-2S-24V.......P/N: 8625-011
 One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/ 2 RS232 serial ports and 6 Giga Port Managed Switch incl.4 PoE; dual input 9~56VDC; -20~70C

- IPWAP-3006-1AC-2SA-24V......P/N:8625-012
 One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS422 serial ports and 6 Giga Port Managed Switch incl.4 PoE; dual input 9~56VDC; -20~70C
- IPWAP-3006-1AC-2SB-24V......P/N:8625-015 One WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS485 serial ports and 6 Giga Port Managed Switch incl.4 PoE; dual input 9~56VDC; -20~70C
- IPWAP-3006-2AC-24V......P/N: 8625-018
 Two WIFI 11ac/a/b/g/n Load Balancing Multifunction Router and 6 Giga Port Managed Switch incl.4 PoE; dual input 9~56VDC; -20~70C

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PoE: dual input 9~56VDC: -20~70C IPWAP-3006-2AC-2SA-24V.....P/N:8625-014 Two WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS422 serial ports and 6 Giga Port Managed Switch incl.4 PoE: dual input 9~56VDC: -20~70C IPWAP-3006-2AC-2SB-24V.....P/N:8625-016 Two WIFI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS485 serial ports and 6 Giga Port Managed Switch incl.4 PoE; dual input 9~56VDC; -20~70C IWAP-3006-1AC-24V.....P/N: 8622-012 One WI-FI 11ac/a/b/g/n Load Balancing Multifunction Router and 6 Giga Port managed switch; dual input 9V~56VDC; -20~70C IWAP-3006-1AC-2S-24V......P/N: 8622-011 One WI-FI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS232 serial ports and 6 Giga Port managed switch; dual input 9V~56VDC: -20~70C IWAP-3006-1AC-2SA-24V.....P/N: 8622-021 One WI-FI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS422 serial ports and 6 Giga Port managed switch; dual input 9V~56VDC: -20~70C IWAP-3006-1AC-2SB-24V.....P/N: 8622-022 One WI-FI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS485 serial ports and 6 Giga Port managed switch; dual input 9V~56VDC; -20~70C IWAP-3006-2AC-24V.....P/N: 8622-032 Two WI-FI 11ac/a/b/g/n Load Balancing Multifunction Router and 6 Giga Port managed switch; dual input 9V~56VDC; -20~70C IWAP-3006-2AC-2S-24V.....P/N: 8622-031 Two WI-FI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS232 serial ports and 6 Giga Port managed switch; dual input 9V~56VDC; -20~70C IWAP-3006-2AC-2SA-24V.....P/N: 8622-041 Two WI-FI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS422 serial ports and 6 Giga Port managed switch; dual input 9V~56VDC; -20~70C

IWAP-3006-2AC-2SB-24V......P/N: 8622-042 Two WI-FI 11ac/a/b/g/n Load Balancing Multifunction Router w/2 RS485 serial ports and 6 Giga Port managed switch; dual input 9V-56VDC; -20-70C

EMMC Flash Storage

- 8G.....P/N:8850-113
- 16G.....P/N:8850-114
- 32G.....P/N:8850-115

OPTIONAL ACCESSORIES

Management System

InstaAir.....P/N: 9000-121
 Cloud Based Fleet Management System for Routers

<u>Wi-Fi Antenna</u>

ANT11000051 2.4/5GHz SMA dipole Wi-Fi antenna, 3dBi (2.4GHz), 4dBi (5GHz)



Wi-Fi hinge rotatable antenna, WiFi Dual Bands 2.4/5.8GHz, SMA Connector

Antenna Base



ADA11000052

Magnetic antenna base for Wi-Fi, RP SMA Jack Base, Length : 1M



Lantech Communications Global Inc.

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