

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)

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, WPAWPA2 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.

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 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)

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
- 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

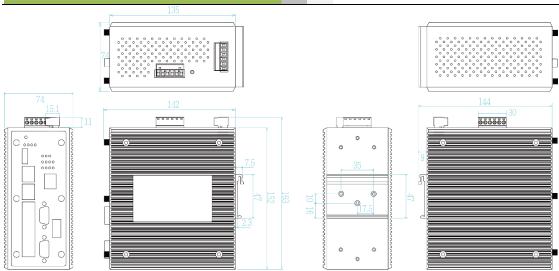
Pack	Algorithm	Description		
Basic	Fixed	All traffic will be distributed to a single WAN.		
	Failover	Routes connections through preferred WAN link while others stand-by. Sequentially activating another link if the preferred link fails.		
	Priority	Select the active WAN according to priority.		
	Weighted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

DIMENSIONS (unit=mm)



SPECIFICATION

WLAN Interfa	ice		13/13/13dBm @ MCS8 (VHT20/40/80)	
Radio Frequency	DSSS, OFDM		13/13dBm @ MCS9 (VHT40/80)	
Type			Receiver Sensitivity Rx +/- 2dB	
Wireless Standard	IEEE 802.11ac/n/a 5GHz		≦-92dBm @ 6~18Mbps	
	IEEE 802.11b/g/n 2.4GHz		≦-86dBm @ 24Mbps	
Wireless bandwidth	5GHz: Up to 1300Mbps		≦-84dBm @ 36Mbps	
	2.4GHz: Up to 450Mbps		≦-81dBm @ 48Mbps	
Modulation	802.11b: DSSS		≦-80dBm @ 54Mbps	
	802.11a/g:		≦-93dBm @ MCS0 (HT20/40)	
	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)		≦-71dBm/≦-80dBm @ MCS7 (HT20/40)	
	802.11n:		≦-90dBm @ MCS0 (VHT20/40/80)	
	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)		≦-69dBm @ MCS8 (VHT20/40/80)	
	802.11ac:		≦-66dBm @ MCS9 (VHT40/80)	
	OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-	Encryption Security	WEP: (64-bit, 128-bit key supported)	
	QAM)		WPA/WPA2:IEEE802.11i(WEP and AES encryption	
Operating Frequency	IEEE 802.11 a/b/g/n ISM Band,		WPA-PSK (256-bit key pre-shared key supported)	
	2.412GHz~2.472GHz, 5150MHz~5850MHz		EAP-TLS,EAP-TTLS, PEAP	
Transmission Rate	IEEE802.11ac: up to 1300Mbps	Wireless Security	SSID broadcast disable	
	IEEE802.11b: 1 / 2 / 5.5 / 11 Mbps	Software		
	IEEE802.11a/g: 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54	IPv6/4	Present	
	Mbps	Operating Mode	AP/Bridge/Client/MESH modes	
	IEEE802.11n: up to 450Mbps	WMM	WIFI multimedia and 802.11e traffic prioritization	
IEEE	Output Power Tx +/- 2dB(per chain)	VPN	Multi-site VPN, Open VPN, PPTP, L2TP over IPSec,	
802.11b/g/n(2.4Gbps	18dBm @ 1~11Mbps	Firewall	IPSec, L2 over GRE, IPGRE and NAT	
	18dBm @ 6~54Mbps	Firewall	DDoS, IP address filter / Mac address filter /	
	20/20dBm @ MCS0~MCS7 (HT20/40)		TCP/UDP port number	
	Receiver Sensitivity Rx +/- 2dB	Load Balancing Basic	5 schemes for multiple WAN	
	≦-95dBm @ 1~11Mbps		All traffic will be distributed to a single WAN.	
	≦-92dBm @ 6~18Mbps	Fixed	·	
		Failover	Routes connections through preferred WAN link	
	≦-85dBm @ 36Mbps		while others stand-by. Sequentially activating anothe	
			link if the preferred link fails.	
		Priority	Select the active WAN according to priority.	
	≦-94dBm @ MCS0 (HT20/40)	Weighted Round-	Evenly distribute the traffic over all working WAN	
	≦-76dBm @ MCS7 (HT20/40)	Robin	links in circular order according to the specified	
IEEE	Output Power Tx +/- 2dB(per chain)	-rtobiii	weights	
802.11a/n/ac(5Gbps)	20dBm @ 6~24Mbps	Custom Route	Routing through the selected WAN for each specific	
	16dBm @ 36~54Mbps	Ouston Route	traffic ex: TCP/UDP port number and IP address.	
	19/18dBm @ MCS0 (HT20/40)	Security	WEP64/128bits/ WPA/ WPA-PSK (TKIP,AES)/ WPA2	
	16/16dBm @ MCS7 (HT20/40)		WPA2-PSK (TKIP,AES)/SSH/SSL/HTTPS	
	19/18/18dBm @ MCS0 (VHT20/40/80)	Roaming	Client-base roaming	



MESH	Support 802.11s Wireless Mesh Network		Max. input current:8mA		
Authentication			2 Digital Output(DO): Open collector to 40 VDC,		
	SSID broadcast disable supported		200mA		
SSID	16 sets	LED Indicate	200.000		
Login Security	Supports IEEE802.1x Authentication/RADIUS		Per unit: Power 1 (Green), Power 2 (Green), P-Fail		
Access Security	HTTP/HTTPS/Telnet/SSH & Administration; SNMP v1/v2/v3 access for authentication via MD5/SHA(v3)	Power & System indicator	(Red), Ring Master(Green), Storage(Green), Serial1/Serial2(Green), Ready(Green)		
	and Encryption via DES/AES(v3)	10/100/1000Base-	Link/Activity (Green), Speed (1000T: Yellow;		
Protocol	PPPoE Client, DHCP server/client, Adjustable MTU,	T(X) port indicator	10/100TX: off), PoE (Green, PoE model)		
	Port forwarding (NAPT), DMZ; NAT, SNTP,	Fault	Red: Ethernet link down or power down		
	Firewall(Firewall(DDoS; IP address filter / Mac address filter / TCP/UDP port name), VRRP, DDNS	Fault contact	et e e e e e e e e e e e e e e e e e e		
Routing	Static route / RIPv2 / OSPF / BGP / EIGRP	Relay	Relay output to carry capacity of 1A at 24VDC		
Protocol Gateway	Modbus on serial ports**	Power			
Management	SNMP v1,v2c,v3/ Web/Telnet/CLI	Input power	Dual DC input, 9~56VDC (24V model)		
Environmental	System status for input voltage, current, ambient	PoE Budget (PoE	80W@12V /80W@24V&48V		
Monitoring	temperature to be shown in GUI and sent alerting if	model)			
cg	any abnormal status	Power consumption	30.5 Watts		
Graphic signal	Graphic WIFI signal strength	Physical Characteristic			
display					
Timer	Built-in Real Time Clock to keep track of time	Enclosure	IP 30 Metal case		
	always(RTC)	Dimension	74 (W) x 142 (D) x 152 (H) mm		
Discovery	IEEE 802.1ab Link Layer Discovery Protocal (LLDP)	Weight	900g		
SNMP trap	Device cold / warm start	Environmen	ıtal		
	Port link up / link down	Storage	-40°C ~ 85°C (-40°F ~ 185°F)		
	DI/DO high / low	Temperature			
Remote Web	To reboot router by WebUI	Operating Temperature	-20°C ~ 70°C (-4°F ~ 158°F) -40°C ~ 70°C (-40°F ~ 158°F) -E Model		
control		Operating Humidity			
Captive portal	Editable captive portal login page	Regulatory			
Maintenance	Firmware upgradeable through TFTP/ HTTP	Safety	EN 62368		
Configuration	Supports text configuration file for system quick	EMC	FCC Part 15B Class A,		
backup & restore	installation	LIVIC	EN 55032: 2015,		
	USB port to upload/download configuration by USB dongle		EN 55024: 2010		
Division I De			IEC 61000-6-2,		
	rts & System		IEC 61000-6-4		
Connectors	10/100/1000T: 6x ports RJ 45 (PoE model incl 4 PoE	EMS	IEC 61000-4-2 (ESD),		
	ports)		IEC 61000-4-3 (RS),		
	USB x 1		IEC 61000-4-4 (EFT),		
	RS-232 connector: 1 x RJ 45 Serial connector: 2 DB9		IEC 61000-4-5 (Surge),		
	RP-SMA connector for Wi-Fi 2AC: 6 (female)		IEC 61000-4-6 (CS),		
	RP-SMA connector for Wi-Fi 1AC: 3 (female)	D # 5	IEC 61000-4-8 (PFMF)		
	Power & P-Fail connector: 1 x 6-pole terminal block	Radio Frequency	EN 301 489-1,		
	DIDO : 1 x 5-pole terminal block		EN 301 489-17, EN 301 489-19,		
Serial Baud Rate	1000Kbps for RS232 ; 12Mbps for RS422/RS485		EN 301 489-19, EN 301 489-52		
Serial Data Bits	5, 6, 7, 8		EN 302 502,		
Serial Parity	odd, even, none, mark, space		EN 301 893,		
Serial Stop Bits	1, 1.5, 2		EN 300 328,		
RS-232	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND		EN 62311		
RS-422	Tx+,Tx-, Rx+, Rx-,GND	Vehicle certificate	E13**		
RS-485 (2-wire)	Data+, Data-,GND	MTBF	NA		
	Input power to I/O: 1.5KV isolation	Warranty	5 years		
Isolation protection					
Isolation protection	Input power to Ethernet 1.5KV isolation		*Future Release		
	Input power to Ethernet 1.5KV isolation Input power to PoE port 1.5KV isolation (PoE model)				
EMMC Storage**	Input power to Ethernet 1.5KV isolation Input power to PoE port 1.5KV isolation (PoE model) 8/16/32 GB		*Future Release **Optional		
	Input power to Ethernet 1.5KV isolation Input power to PoE port 1.5KV isolation (PoE model)				



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	-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



SOHz 2008m 2508m 2208 9448m 4208 9408m 4208 9408m 4208 9408m 4208 12408 9408m 4208 12408 9208m 4208 8608m 4208 4608m 4208 460		Data Rate	TX Power (per chain)	TX Power (3 chains)	Tolerance	RX Specifications Sensitivity	Tolerance
12Nbps		6Mbps	20dBm	25dBm	±2dB	-94dBm	±2dB
18Mbps 20dBm 25dBm 42dB -91dBm 42dB 36Mbps 18dBm 23dBm 42dB -8dBm 42dB		9Mbps	20dBm	25dBm	±2dB	-94dBm	±2dB
24Mbps		12Mbps	20dBm	25dBm	±2dB	-92dBm	±2dB
2-doi:10.10	5GHz	18Mbps	20dBm	25dBm	±2dB	-91dBm	±2dB
### ### ### ### ### ### ### ### ### ##	802.11a	24Mbps	20dBm	25dBm	±2dB	-90dBm	±2dB
S4Mbps		36Mbps	18dBm	23dBm	±2dB	-86dBm	±2dB
MCS 0		48Mbps	16dBm	21dBm	±2dB	-83dBm	±2dB
MCS 1		54Mbps	15dBm	20dBm	±2dB	-80dBm	±2dB
MCS 2		MCS 0	19dBm	24dBm	±2dB	-93dBm	±2dB
MCS 3		MCS 1	19dBm	24dBm	±2dB	-90dBm	±2dB
### SGHz 802.11nac VHT20 MCS 4		MCS 2	19dBm	24dBm	±2dB	-87dBm	±2dB
802.11n/ac VHT20 MCS 4 18dBm 23dBm ±2dB -80dBm ±2dB 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 -73dBm ±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 -85dBm ±2dB MCS 4 17dBm 22dBm ±2dB -80dBm ±2dB MCS 5 16dBm 21dBm ±2dB -75dBm ±2dB MCS 6 15dBm 20dBm ±2dB -73dBm ±2dB MCS 7 14dBm 19dBm ±2dB -73dBm ±2	FOUL-	MCS 3	18dBm	23dBm	±2dB	-83dBm	±2dB
MCS 5 17dBm 22dBm ±2dB -77dBm ±2dB	802.11n/ac	MCS 4	18dBm	23dBm	±2dB	-80dBm	±2dB
MCS 7	VH120	MCS 5	17dBm	22dBm	±2dB	-77dBm	±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 -80dBm ±2dB MCS 4 17dBm 22dBm ±2dB -80dBm ±2dB MCS 5 16dBm 21dBm ±2dB -75dBm ±2dB MCS 6 15dBm 20dBm ±2dB -73dBm ±2dB MCS 7 14dBm 19dBm ±2dB -73dBm ±2dB MCS 8 13dBm 18dBm ±2dB -70dBm ±2dB MCS 9 13dBm 18dBm ±2dB -80dBm ±2dB MCS 1 18dBm 23dBm ±2dB -80dBm ±2dB MCS 1 18dBm 23dBm ±2dB -80dBm ±2dB		MCS 6	16dBm	21dBm	±2dB	-74dBm	±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 MCS 3 17dBm 22dBm ±2dB -80dBm ±2dB MCS 4 17dBm 22dBm ±2dB -75dBm ±2dB MCS 5 16dBm 21dBm ±2dB -73dBm ±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 -80dBm ±2dB MCS 0 18dBm 23dBm ±2dB -89dBm ±2dB MCS 1 18dBm 23dBm ±2dB -89dBm ±2dB MCS 1 18dBm 23dBm ±2dB -87dBm ±2dB MCS 2 18dBm 23dBm ±2dB -85dBm ±2dB MCS 2 18dBm 23dBm ±2dB -85dBm ±2dB MCS 3 17dBm 22dBm ±2dB -83dBm ±2dB MCS 4 17dBm 22dBm ±2dB -80dBm ±2dB MCS 5 16dBm 21dBm ±2dB -80dBm ±2dB MCS 6 15dBm 21dBm ±2dB -78dBm ±2dB MCS 6 15dBm 21dBm ±2dB -78dBm ±2dB MCS 7 14dBm 19dBm ±2dB -78dBm ±2dB MCS 8 13dBm 18dBm ±2dB -78dBm ±2dB MCS 7 14dBm 19dBm ±2dB -78dBm ±2dB MCS 8 13dBm 18dBm ±2dB -78dBm ±2dB MCS 8 13dBm 18dBm ±2dB -78dBm ±2dB		MCS 7	14dBm	19dBm	±2dB	-73dBm	±2dB
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5GHz 802.11n/ac VHT40 MCS 4 17dBm 22dBm ±2dB -80dBm ±2dB MCS 5 16dBm 21dBm ±2dB -75dBm ±2dB MCS 6 15dBm 20dBm ±2dB -73dBm ±2dB MCS 7 14dBm 19dBm ±2dB -73dBm ±2dB MCS 8 13dBm 18dBm ±2dB -70dBm ±2dB MCS 9 13dBm 18dBm ±2dB -8dBm ±2dB MCS 0 18dBm 23dBm ±2dB -87dBm ±2dB MCS 1 18dBm 23dBm ±2dB -87dBm ±2dB MCS 2 18dBm 23dBm ±2dB -85dBm ±2dB MCS 3 17dBm 22dBm ±2dB -83dBm ±2dB MCS 4 17dBm 22dBm ±2dB -80dBm ±2dB MCS 5 16dBm 21dBm ±2dB -78dBm ±2dB MCS 6 15dBm 20dBm ±2dB -75dBm <t< td=""><td></td><td>MCS 2</td><td>18dBm</td><td>23dBm</td><td>±2dB</td><td>-85dBm</td><td>±2dB</td></t<>		MCS 2	18dBm	23dBm	±2dB	-85dBm	±2dB
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MCS 7 14dBm 19dBm ±2dB -72dBm ±2dB MCS 8 13dBm 18dBm ±2dB -70dBm ±2dB		MCS 5	16dBm	21dBm	±2dB	-78dBm	±2dB
MCS 8 13dBm 18dBm ±2dB -70dBm ±2dB		MCS 6	15dBm	20dBm	±2dB	-75dBm	±2dB
		MCS 7	14dBm	19dBm	±2dB	-72dBm	±2dB
MCS 9 13dBm 18dBm ±2dB -68dBm ±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 $9\sim56$ VDC; $-20\sim70$ C
- 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
- IPWAP-3006-2AC-2S-24V......P/N: 8625-013
 - Two 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-3006-2AC-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 $9\sim56$ VDC; -20 ~70 C

■ 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 $9V\sim56VDC$; $-20\sim70C$

■ 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 $9V\sim56VDC$; - $20\sim70C$

■ 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

Wi-Fi Antenna

ANT11000051

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



ANT11000055

2.4/5GHz SMA dipole Wi-Fi antenna, 6dBi (2.4GHz), 4dBi (5GHz)



Antenna Base

ADA11000052

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





Lantech Communications Global Inc.

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