

OVERVIEW

Lantech TPWAP-5006 series is a next generation EN50155 multi-function VPN router w/ 1 x 802.11ac Wi-Fi + 6 Gigabit Xcoded Ethernet managed switch incl. 4 PoE ports + 2 serial ports** that supports advanced function of VPN, Load-Balancing(Premium pack), EMMC Flash Storage**, Protocol gateway**, Wi-Fi roaming, and Air teaming** for on-board / onboard-to-ground applications. The dual core CPU with 1.6GHz + 256M flash enables the router to multi-task smoothly.

IEEE 802.11ac one band radio up to 2.6Gbps bandwidth With IEEE 802.11ac capability, TPWAP-5006 can operate either 5GHz or 2.4GHz bands, offering the maximum speed of 2.6Gbps bandwidth (1.3Gbps per 802.11ac module). It is also compatible with 802.11b/g/n that can work with 2.4GHz for longer range transmission.

Support AP/Bridge/Client mode, Mesh w/802.11k, v roaming

TPWAP-5006 supports AP/Bridge/Client mode for different applications. Client mode supports PMK** Caching and preauthentication.

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It also supports 802.11k, v roaming to allow encryption keys to be stored on all of the APs in a network.

Built-in Wireless Mesh network (WMN)

TPWAP-5006 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 router can offer 8G/16G/32G capacity.

MIMO technology with 3T3R and standard SMA / optional QMA type connectors

Lantech TPWAP-5006 series adapts MIMO technology with smart antenna transmission and reception for 3T3R. With six external detachable antenna SMA/QMA** connectors and optional antennas, TPWAP-5006 can have better Wi-Fi coverage.

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

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.

Wireless WMM QoS

TPWAP-5006 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 TPWAP-5006 support up to 16 SSIDs, each SSID has its independent security and encryption.

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

TPWAP-5006 supports Load Balancing for WAN connections. There are eight schemes with Load Balancing function:

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

Optional 2 port serial connection, Modbus gateway

It builds in Optional 2 port serial connection for RS232; RS422; RS485 in which RS422/RS485 has 2.5KV isolation protection.

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

VPN and firewall

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Besides traditional VPN peer to peer tunneling, TPWAP-5006 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.

Optional 2 GT smart bypass protection

The optional bypass relay is set to bypass the router to the next one when power is off in order to protect the network from crashing. Lantech bypass caters to remain in bypass mode until the router is completely booting up when power is back to avoid another network lost. Also it will be activated when detecting the router is hanged or link down.

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

2 sets of DIDO function can support additional high/low

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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 TPWAP-5006 will immediately send email** and trap.

The event log can be sent via syslog, emails or trigger the alarm relay.

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 dual input voltage from 16.8-137.5V (WV model)

The TPWAP-5006 is able to work from dual 16.8V ~137.5V DC input (WV model) for PoE at/af with PoE budget 60W that is particular good for vehicle, rail train, depot etc applications.

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.

Environmental monitoring for inside router info& alerting; Graphic WI-FI 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.

The graphic WI-FI signal strength shows connection status at a glance.

Dual image firmware*

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

Editable login page of captive portal

The TPWAP-5006 supports editable captive portal function that allows administrator to force end-users redirect to authentication page.

USB port for back up, restore configuration and upgrade firmware

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

Ruggedized EN50155 design and FCC/CE & E-marking** certificate

The TPWAP-5006 series is verified with EN50155, EN61373, EN45545 standard with IP65/54 housing. It passed tests under extensive Industrial EMI and environmental vibration and shocks standards. With E-marking** certificate, the TPWAP-5006 is best for outdoor community, vehicle, power substation, process control automation etc application. For more usage flexibilities, TPWAP-5006 supports operating temperature from -20°C to 70°C or -40°C to 70°C(-E)

FEATURES & BENEFITS

- High Speed Air Connectivity: WLAN interface support 1.3Gbps
- Built-in 6 Gigabit X-coded Ethernet managed switch incl. 4 PoE switch at/af at 60W PoE budget
- Dual DC input from 16.8V~137.5VDC power input (WV model)
- Optional 2 GT smart bypass relay protection when detecting power lost as well as CPU hang-up or link down. Deferring bypass time until router is completely boot-up.
- EMMC-FLASH storage**8/16/32G
- 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
- Dual band 2.4G and 5GHz with 802.11ac/a/b/g/n
- Support 2.4Ghz operating within the following frequency bands:
 - 2.412~2.472 GHz
- Support 5Ghz operating within the following frequency bands:
 - 5.180~5.825 GHz

- MIMO smart antenna technology with 3T3R
- Support AP/Bridge/Client/MESH mode
- Support roaming with 802.11k & v
- Support 802.11s Wireless Mesh Network
- 6 STANDARD SMA / OPTIONAL QMA 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
- 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-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



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prioritization

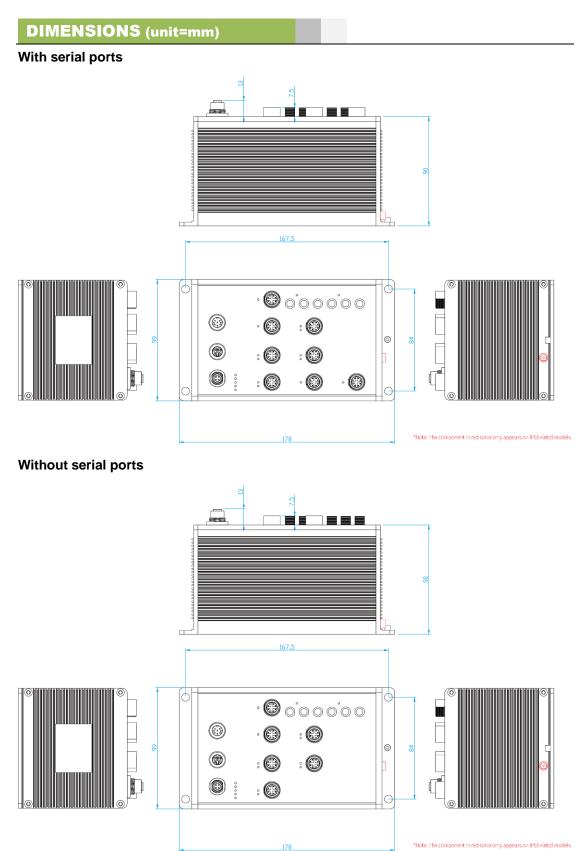
- Support Multi-Site VPN for Mesh tunneling as well as Open VPN, L2TP over IPsec, IPsec, PPTP**, L2 over GRE, IPGRE and NAT for secured network connection
- The built-in Layer-4 firewall includes DDoS, IP address filter / Mac address filter / TCP/UDP port number
- NAT/DMZ/Port Forwarding
- Support SNMP*v1/v2c/v3
- Load Balancing supports 8 mechanism between multiple WANs

Pack	Algorithm	Description
Basic Package	Fixed	Manually route by traffic type through fixed WAN link.
	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 Evenly distribute the traffic over Round- all working WAN links in circula Robin order according to the specified weights.	
	Custom Route	Routing through the selected WAN for each specific traffic, ex: TCP/UDP port number and IP address.
Full Package** (incl. basic package)	Sticky Session*	Binding all connections in an application session to particular WAN link to ensure all connections in the session are routed to the same WAN link , that is suitable for security services like online payment etc.
	Smallest Load*	Routes connections through the WAN link with highest free bandwidth ratio.

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

- Optional built-in 2 x serial ports** (RS232/RS422/RS485)
- Serial port** with 2.5KV isolation on 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, Email**, Relay ; Permanent local log rotation / Maxi 1K records
- Remote Web control to get status or re-boot by Web
- Support SNTP to synchronize system clock
- Support LLDP discovery protocol
- Support DHCP Server and Client
- Graphic WI-FI signal strength
- Built-in environmental monitoring for system input voltage, current and ambient temperature; Able to set alert when abnormal
- Support editable captive portal login page
- Firmware upgradeable through TFTP/HTTP
- Configuration backup and restoration
 - Supports text configuration file for system quick installation
 - USB port to upload/download firmware by USB donale
- Dual image firmware*
- IP 65/54 housing for water proof environment
- Wall-mount installation
- Visible LED to show the power & port link and activity
- Operation temperature -20~70C or -40°C to 70°C(-E)
- EN45545-2 Fire & Smoke, EN50155 and EN61373 shock/vibration verification







SPECIFICATION

WLAN Interf	ace	Basic Package	
Radio Frequency	DSSS, OFDM	Fixed	Manually route by traffic type through fixed WAN link.
Туре		Failover	Routes connections through preferred WAN link
Wireless Standard	IEEE 802.11ac/n/a 5GHz		while others stand-by. Sequentially activate another
	IEEE 802.11b/g/n 2.4GHz		link if preferred link failure occurs.
Wireless bandwidth	5GHz: Up to 1300Mbps	Priority	Routes connections through preferred WAN link
	2.4GHz: Up to 450Mbps	· ·	while others stand-by. Sequentially activate other
Modulation	802.11b: DSSS		links if overflow occurs.
	802.11a/g:	Weighted Round-	Evenly distribute the traffic over all working WAN
	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)	Robin	links in circular order according to the specified
	802.11n:		• •
	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)	Custom Route	weights Routing through the selected WAN for each specific
			traffic ex: TCP/UDP port number and IP address.
Oneration	OFDM (BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM)	Full Package** i	ncl. basic package
Operating Froquency	IEEE 802.11 a/b/g/n ISM Band, 2.412GHz~2.472GHz, 5150MHz~5850MHz	Sticky Session*	Binding all connections in an application session to
Frequency Transmission Rate	IEEE802.11ac: up to 1300Mbps		particular WAN link to ensure all connections in the
	IEEE802.11b: 1 / 2 / 5.5 / 11 Mbps		•
	IEEE802.11a/g: 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54 Mbps		session are routed to the same WAN link , that is
	IEEE802.11n: up to 450Mbps		suitable for security services like online payment etc.
IEEE	Output Power Tx +/- 2dB(per chain)	Smallest Load*	Routes connections through the WAN link with highest free bandwidth ratio.
802.11b/g/n(2.4Gbp	18dBm @ 1~11Mbps		The ratio = 1 - (traffic load / the capability of a WAN
s)	18dBm @ 6~54Mbps		link).
	20/20dBm @ MCS0~MCS7 (HT20/40)		The traffic load could be defined by downstream,
	Receiver Sensitivity Rx +/- 2dB		upstream or total traffic
	≦-95dBm @ 1~11Mbps	Fastest*	Routes connections through the WAN link with lowest
	≦-92dBm @ 6~18Mbps		latency time.
	≦-88dBm @ 24Mbps	Roaming	802.11k & v
	≦-85dBm @ 36Mbps	MESH WMM	Support 802.11s Wireless Mesh Network Wi-Fi multimedia and 802.11e traffic prioritization
	≦-81dBm @ 48Mbps	Security	WEP64/128bits/ WPA/ WPA-PSK (TKIP,AES)/ WPA2/
	≦-80dBm @ 54Mbps		WPA2-PSK (TKIP,AES)/SSH/SSL/HTTPS
	≦-94dBm @ MCS0 (HT20/40)	Authentication	Radius Authentication, EAP-TLS, EAP-TTLS, PEAP;
	≦-76dBm @ MCS7 (HT20/40)	000	SSID broadcast disable supported
IEEE	Output Power Tx +/- 2dB(per chain)	SSID Client mode	16 sets PMK** Caching and pre-authentication.
802.11a/n/ac(5Gbp	20dBm @ 6~24Mbps	Timer	Built-in Real Time Clock to keep track of time
	16dBm @ 36~54Mbps		always(RTC)
	19/18dBm @ MCS0 (HT20/40)	Discovery	IEEE 802.1ab Link Layer Discovery Protocol (LLDP)
	16/16dBm @ MCS7 (HT20/40)	SNMP trap	Device cold / warm start
	19/18/18dBm @ MCS0 (VHT20/40/80) 13/13/13dBm @ MCS8 (VHT20/40/80)		Port link up / link down
	13/13dBm @ MCS9 (VHT40/80)	Environmental	DI / DO high / low
	Receiver Sensitivity Rx +/- 2dB	Monitoring	System status for input voltage, current, ambient temperature to be shown in GUI and sent alerting if
	≦-92dBm @ 6~18Mbps	Montoling	any abnormal status
	≦-86dBm @ 24Mbps	Graphic signal	Graphic Wi-Fi signal strength
	≦-84dBm @ 36Mbps	display	
	≦-81dBm @ 48Mbps	Remote Web	To reboot or get status of router by Web
	≦-80dBm @ 54Mbps	control	
	≦-93dBm @ MCS0 (HT20/40)	Captive portal	Editable captive portal login page
	≦-71dBm/≦-80dBm @ MCS7 (HT20/40)	Maintenance	Firmware upgradeable through TFTP/HTTP Supports text configuration file for quick system
	≦-90dBm @ MCS0 (VHT20/40/80)	Configuration backup & restore	installation
	≦-69dBm @ MCS8 (VHT20/40/80)		USB port to upload/download firmware by USB
	≦-66dBm @ MCS9 (VHT40/80)		dongle
Encryption Security	WEP: (64-bit ,128-bit key supported)		Dual image firmware*
	WPA /WPA2 : IEEE802.11i(WEP and AES encryption)	Physical Por	ts & System
	WPA-PSK (256-bit key pre-shared key supported)	Connectors	10/100/1000T: 6x ports M12 8-pole X-coded(incl 4
	OKC** and 802.11r**		PoE ports)
Wirolosa Soouritu	EAP-TLS,EAP-TTLS, PEAP SSID broadcast disable		USB/Console connector: 1 x M12 8-pole A-coded
Wireless Security			DI/DO : 1 x M12 5-pole A-coded
Software	Present		Power Input connector : 1 x M12 4-pole A-coded Serial connector : 2 DB9
IPv6/4 Operation Mode	Present		RP-SMA/QMA** connector for Wi-Fi 2AC: 6 (female)
Operation Mode	AP/Bridge/Client/MESH mode Supports IEEE802.1x Authentication/RADIUS		RP-SMA/QMA** connector for Wi-Fi 1AC: 3 (female)
Access Security	HTTP/HTTPS/Telnet/SSH & Administration;	Serial Baud Rate**	1000Kbps high data rate, 250kbps normal for
	SNMP* $v1/v2/v3$ access for authentication via		RS232 ; 20Mbps high data rate, 250kbps normal for
	MD5/SHA(v3) and Encryption via DES/AES(v3)	Sorial Date Bitett	RS422/RS485
Protocol	PPPoE Client, DHCP server/client, Adjustable MTU,	Serial Data Bits** Serial Parity**	5, 6, 7, 8 odd, even, none, mark, space
	Port forwarding (NAPT), DMZ; NAT, SNTP,	Serial Stop Bits**	odd, even, none, mark, space 1, 1.5, 2
	Firewall(Firewall(DDoS; IP address filter / Mac	RS-232**	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
	address filter / TCP/UDP port number),VRRP**,	RS-422**	Tx+, Tx-, Rx+, Rx-, GND
	DDNS*		
Management	DDNS* SNMP*v1_v2c_v3/ Web/Telnet/CL1	RS-485 (2-wire) **	Data+, Data-, GND
Management Load Balancing	DDNS* SNMP*v1,v2c,v3/Web/Telnet/CLI 8 schemes for multiple WAN		Data+, Data-, GND RS422/RS485 2.5KV isolation; 8KV contact & 15KV

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EN50155 Multifunction Router + PoE Switch



	RS232 8KV contact and 15KV air ESD	Weight	1000g		
	DIDO 3KV isolation		Environmental		
	Input power 1.5KVA isolation	Storage	-40°C ~ 85°C (-40°F ~ 185°F)		
DI/DO	2 Digital Input (DI) :	Temperature			
	Level 0: -30~2V / Level 1: 10~30V	Operating Temperature	-20°C ~ 70°C (-4°F ~ 158°F) -40°C ~ 70°C (-40°F ~ 158°F)		
	Max. input current:8mA 2 Digital Output(DO): Open collector to 40 VDC,	Operating Humidity	5% to 95% Non-condensing		
	2 Digital Output(DO). Open collector to 40 VDC, 200mA	Regulatory a			
LED Indicate	ors	EMC	FCC Part 15 Class A, EN55032 , EN55024		
Power & System	Per unit: Power 1 (Green), Power 2 (Green), P-Fail	EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-		
indicator	(Red), Ring Master(Green),		4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS),		
· · · · · · · · · · ·	Serial1/Serial2(Green) ,Ready(Green)		EN61000-4-8, EN61000-6-2		
10/100/1000Base-	Link/Activity (Green), Speed (Yellow), PoE (Green)	Radio Frequency	EN301 489-1, EN301 489-17, EN301 489-19, EN301		
T(X) port indicator	Dards Ethermot Kalandarum an anna darum		489-52, EN300 440, EN301 893, EN300 328, EN301		
Fault	Red: Ethernet link down or power down	1	908-1, EN303 413, EN62311		
Fault contac	ct de la constance de la const	Safety	EN60950 (LVD), AS60950 (LVD)		
Relay	Relay output to carry capacity of 1A at 24VDC	Stability Testing	EN61373 (Shock & Vibration)		
Power		Verifications &	EN50155, EN50121-3-2, EN50121-4 verification		
Input power	Dual DC input, 16.8VDC~137.5VDC for (WV model)	report	EN45545-2 R13/R22/R23/R24/R25 (EN ISO 4589-2,		
System power	30.5W		EN ISO 5659-2, NF X70-100-1 & 2) Fire & Smoke		
PoE Budget	60W	MTBF	verification NA		
EMMC Storage**	8/16/32 GB	Warranty	5 years		
Physical Ch	aracteristic		*Future Release		
Enclosure	IP 65/54 aluminum case		**Optional		
Dimension	178 (W) x 99 (D) x 103 (H) mm				

RF Performance Table

Data RateTX Power (per chain)TX Power (chain)ToleranceRX Specifications SensitivityTolerance24.CH2 802.11b1Mbps20dBm25dBm±2dB-94dBm±2dB28.01 20.01b20dBm25dBm±2dB-94dBm±2dB5.5Mbps20dBm25dBm±2dB-92dBm±2dB11Mbps20dBm25dBm±2dB-90dBm±2dB11Mbps20dBm25dBm±2dB-90dBm±2dB11Mbps20dBm26dBm±2dB-90dBm±2dB9Mbps21dBm26dBm±2dB-93dBm±2dB12Mbps21dBm26dBm±2dB-90dBm±2dB12Mbps21dBm26dBm±2dB-90dBm±2dB12Mbps21dBm26dBm±2dB-90dBm±2dB24Mbps21dBm26dBm±2dB-90dBm±2dB36Mbps20dBm25dBm±2dB-90dBm±2dB48Mbp19dBm23dBm±2dB-90dBm±2dB48Mbp19dBm23dBm±2dB-90dBm±2dB48Mbp19dBm23dBm±2dB-90dBm±2dB48Mbp19dBm23dBm±2dB-90dBm±2dB48Mbp19dBm23dBm±2dB-90dBm±2dB48Mbp19dBm23dBm±2dB-90dBm±2dB48Mbp19dBm23dBm±2dB-90dBm±2dB48Mbp19dBm23dBm±2dB-90dBm<							
2.4.GHz 802.1102.2Mbps2.0dBm2.5dBm±.2dB-9.4dBm±.2dB5.5Mbps2.0dBm2.5dBm±.2dB-9.2dBm±.2dB11Mbps2.0dBm2.5dBm±.2dB-9.0dBm±.2dB6Mbps2.1dBm2.6dBm±.2dB-9.0dBm±.2dB9Mbps2.1dBm2.6dBm±.2dB-9.0dBm±.2dB12Mbps2.1dBm2.6dBm±.2dB-9.0dBm±.2dB12Mbps2.1dBm2.6dBm±.2dB-9.0dBm±.2dB18Mbps2.1dBm2.6dBm±.2dB-9.0dBm±.2dB2.4GHz18Mbps2.1dBm2.6dBm±.2dB-9.0dBm2.4Mbps2.1dBm2.6dBm±.2dB-9.0dBm±.2dB3.6Mbps2.0dBm2.6dBm±.2dB-9.0dBm±.2dB3.6Mbps2.0dBm2.5dBm±.2dB-9.0dBm±.2dB4.8Mbps19.dBm2.6dBm±.2dB-9.0dBm±.2dB4.8Mbps19.dBm2.6dBm±.2dB-9.0dBm±.2dB5.4Mbps18.dBm2.3dBm±.2dB-9.0dBm±.2dBMCS 02.1dBm2.6dBm±.2dB-9.0dBm±.2dB4.8Mbps19.dBm2.6dBm±.2dB-9.0dBm±.2dB4.8Mbps19.dBm2.3dBm±.2dB-9.0dBm±.2dB4.8Mbps19.dBm2.6dBm±.2dB-9.0dBm±.2dB4.8Mbps19.dBm2.6dBm±.2dB-9.0dBm±.2dB4.8Mbps19.dBm2		Data Rate			Tolerance	RX Specifications Sensitivity	Tolerance
B02.11b 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 9Mbps 21dBm 26dBm ±2dB -93dBm ±2dB 12Mbps 21dBm 26dBm ±2dB -93dBm ±2dB 12Mbps 21dBm 26dBm ±2dB -90dBm ±2dB 12Mbps 21dBm 26dBm ±2dB -90dBm ±2dB 24Mbps 21dBm 26dBm ±2dB -90dBm ±2dB 24Mbps 21dBm 26dBm ±2dB -90dBm ±2dB 36Mbps 19dBm 24dB ±2dB -90dBm ±2dB 48Mbps 19dBm 23dBm ±2dB -82dBm ±2dB 64Mbps 18dBm 23dBm ±2dB -94dBm ±		1Mbps	20dBm	25dBm	±2dB	-95dBm	±2dB
S.Mbps Z.dbin Z.dbin <thz.dbin< th=""> <thz.dbin< th=""> <thz.dbin< td="" th<=""><td>2.4GHz</td><td>2Mbps</td><td>20dBm</td><td>25dBm</td><td>±2dB</td><td>-94dBm</td><td>±2dB</td></thz.dbin<></thz.dbin<></thz.dbin<>	2.4GHz	2Mbps	20dBm	25dBm	±2dB	-94dBm	±2dB
SAGHz 802.110SolutionSolutionSolutionSolutionSolutionSolutionSolution8.4GHz 802.110SolutionSolutionSolutionSolutionSolutionSolutionSolutionSolution8.4GHz 802.110SolutionSolutionSolutionSolutionSolutionSolutionSolutionSolution8.4GHz 	802.11b	5.5Mbps	20dBm	25dBm	±2dB	-92dBm	±2dB
9Mbps21dBm26dBm±2dB-93dBm±2dB12Mbps21dBm26dBm±2dB-93dBm±2dB18Mbps21dBm26dBm±2dB-90dBm±2dB24Mbps21dBm26dBm±2dB-90dBm±2dB24Mbps21dBm26dBm±2dB-90dBm±2dB36Mbps20dBm25dBm±2dB-90dBm±2dB36Mbps19dBm2ddBm±2dB-85dBm±2dB48Mbps19dBm23dBm±2dB-80dBm±2dB54Mbps18dBm23dBm±2dB-90dBm±2dBMCS 021dBm26dBm±2dB-90dBm±2dBMCS 121dBm26dBm±2dB-90dBm±2dBMCS 221dBm26dBm±2dB-90dBm±2dBMCS 320dBm26dBm±2dB-90dBm±2dBMCS 420dBm25dBm±2dB-80dBm±2dBMCS 520dBm25dBm±2dB-80dBm±2dBMCS 618dBm23dBm±2dB-80dBm±2dBMCS 618dBm23dBm±2dB-79dBm±2dBMCS 716dBm21dBm±2dB-77dBm±2dBMCS 020dBm25dBm±2dB-93dBm±2dB		11Mbps	20dBm	25dBm	±2dB	-90dBm	±2dB
12Mbps21dBm26dBm±2dB-93dBm±2dB18Mbps21dBm26dBm±2dB-90dBm±2dB24Mbps21dBm26dBm±2dB-90dBm±2dB36Mbps20dBm25dBm±2dB-90dBm±2dB36Mbps20dBm25dBm±2dB-85dBm±2dB48Mbps19dBm24dBm±2dB-82dBm±2dB54Mbps18dBm23dBm±2dB-80dBm±2dB54Mbps18dBm26dBm±2dB-94dBm±2dBMCS 021dBm26dBm±2dB-94dBm±2dBMCS 121dBm26dBm±2dB-94dBm±2dBMCS 221dBm26dBm±2dB-94dBm±2dBMCS 320dBm26dBm±2dB-94dBm±2dBMCS 420dBm25dBm±2dB-84dBm±2dBMCS 520dBm25dBm±2dB-84dBm±2dBMCS 618dBm23dBm±2dB-79dBm±2dBMCS 716dBm21dBm±2dB-77dBm±2dBMCS 020dBm25dBm±2dB-93dBm±2dB		6Mbps	21dBm	26dBm	±2dB	-94dBm	±2dB
82.4GHz 802.11018Mbps21dBm26dBm±2dB-90dBm±2dB24Mbps21dBm26dBm±2dB-90dBm±2dB36Mbps20dBm25dBm±2dB-85dBm±2dB48Mbps19dBm24dBm±2dB-85dBm±2dB54Mbps19dBm24dBm±2dB-80dBm±2dB54Mbps18dBm23dBm±2dB-80dBm±2dBMCS 021dBm26dBm±2dB-94dBm±2dBMCS 121dBm26dBm±2dB-92dBm±2dBMCS 221dBm26dBm±2dB-89dBm±2dBMCS 221dBm26dBm±2dB-89dBm±2dBMCS 320dBm25dBm±2dB-84dBm±2dBMCS 420dBm25dBm±2dB-83dBm±2dBMCS 520dBm25dBm±2dB-80dBm±2dBMCS 618dBm23dBm±2dB-79dBm±2dBMCS 716dBm21dBm±2dB-77dBm±2dBMCS 020dBm25dBm±2dB-93dBm±2dB		9Mbps	21dBm	26dBm	±2dB	-93dBm	±2dB
244012 802.119 24Mbps 21dBm 26dBm ±2dB -90dBm ±2dB 36Mbps 20dBm 25dBm ±2dB -85dBm ±2dB 48Mbps 19dBm 24dBm ±2dB -82dBm ±2dB 54Mbps 19dBm 24dBm ±2dB -82dBm ±2dB 54Mbps 18dBm 23dBm ±2dB -80dBm ±2dB MCS 0 21dBm 26dBm ±2dB -90dBm ±2dB MCS 1 21dBm 26dBm ±2dB -92dBm ±2dB MCS 2 21dBm 26dBm ±2dB -92dBm ±2dB MCS 2 21dBm 26dBm ±2dB -92dBm ±2dB MCS 2 21dBm 26dBm ±2dB -92dBm ±2dB MCS 3 20dBm 25dBm ±2dB -83dBm ±2dB MCS 4 20dBm 25dBm ±2dB -83dBm ±2dB MCS 5 20dBm 23dBm ±2dB -79dBm <td< td=""><td></td><td>12Mbps</td><td>21dBm</td><td>26dBm</td><td>±2dB</td><td>-93dBm</td><td>±2dB</td></td<>		12Mbps	21dBm	26dBm	±2dB	-93dBm	±2dB
2.4Gb/s 2.4Gb/m 2.2Gb/m 4.2Gb 4.5Gb/m 4.2Gb/m 36Mbps 2.0dBm 2.5dBm ±.2dB -85dBm ±.2dB 48Mbps 19dBm 2.4dBm ±.2dB -85dBm ±.2dB 54Mbps 19dBm 2.3dBm ±.2dB -82dBm ±.2dB 54Mbps 18dBm 2.3dBm ±.2dB -80dBm ±.2dB MCS 0 2.1dBm 2.6dBm ±.2dB -94dBm ±.2dB MCS 1 2.1dBm 2.6dBm ±.2dB -94dBm ±.2dB MCS 2 2.1dBm 2.6dBm ±.2dB -92dBm ±.2dB MCS 2 2.1dBm 2.6dBm ±.2dB -89dBm ±.2dB MCS 3 2.0dBm 2.5dBm ±.2dB -89dBm ±.2dB MCS 4 2.0dBm 2.5dBm ±.2dB -83dBm ±.2dB MCS 5 2.0dBm 2.5dBm ±.2dB -80dBm ±.2dB MCS 6 18.dBm 2.3dBm ±.2dB -		18Mbps	21dBm	26dBm	±2dB	-90dBm	±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 -92dBm ±2dB MCS 2 21dBm 26dBm ±2dB -89dBm ±2dB MCS 2 21dBm 26dBm ±2dB -89dBm ±2dB MCS 2 21dBm 26dBm ±2dB -89dBm ±2dB MCS 3 20dBm 25dBm ±2dB -84dBm ±2dB MCS 4 20dBm 25dBm ±2dB -80dBm ±2dB MCS 5 20dBm 25dBm ±2dB -80dBm ±2dB MCS 6 18dBm 23dBm ±2dB -79dBm ±2dB MCS 7 16dBm 21dBm ±2dB -93dBm ±2dB	802.11g	24Mbps	21dBm	26dBm	±2dB	-90dBm	±2dB
54Mbps18dBm23dBm±2dB-80dBm±2dBMCS 021dBm26dBm±2dB-94dBm±2dBMCS 121dBm26dBm±2dB-92dBm±2dBMCS 221dBm26dBm±2dB-89dBm±2dBMCS 221dBm26dBm±2dB-89dBm±2dBMCS 320dBm25dBm±2dB-84dBm±2dBMCS 420dBm25dBm±2dB-83dBm±2dBMCS 520dBm25dBm±2dB-80dBm±2dBMCS 618dBm23dBm±2dB-79dBm±2dBMCS 716dBm21dBm±2dB-77dBm±2dBMCS 020dBm25dBm±2dB-93dBm±2dB		36Mbps	20dBm	25dBm	±2dB	-85dBm	±2dB
MCS 0 21dBm 26dBm ±2dB -94dBm ±2dB MCS 1 21dBm 26dBm ±2dB -92dBm ±2dB MCS 2 21dBm 26dBm ±2dB -92dBm ±2dB MCS 2 21dBm 26dBm ±2dB -89dBm ±2dB MCS 2 21dBm 26dBm ±2dB -89dBm ±2dB MCS 3 20dBm 25dBm ±2dB -89dBm ±2dB MCS 4 20dBm 25dBm ±2dB -83dBm ±2dB MCS 5 20dBm 25dBm ±2dB -80dBm ±2dB MCS 5 20dBm 25dBm ±2dB -79dBm ±2dB MCS 6 18dBm 21dBm ±2dB -79dBm ±2dB MCS 7 16dBm 21dBm ±2dB -93dBm ±2dB MCS 0 20dBm 25dBm ±2dB -93dBm ±2dB		48Mbps	19dBm	24dBm	±2dB	-82dBm	±2dB
MCS 1 21dBm 26dBm ±2dB -92dBm ±2dB MCS 2 21dBm 26dBm ±2dB -89dBm ±2dB MCS 3 20dBm 25dBm ±2dB -84dBm ±2dB MCS 4 20dBm 25dBm ±2dB -84dBm ±2dB 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		54Mbps	18dBm	23dBm	±2dB	-80dBm	±2dB
MCS 2 21dBm 26dBm ±2dB -89dBm ±2dB MCS 3 20dBm 25dBm ±2dB -84dBm ±2dB MCS 4 20dBm 25dBm ±2dB -84dBm ±2dB MCS 4 20dBm 25dBm ±2dB -83dBm ±2dB MCS 5 20dBm 25dBm ±2dB -80dBm ±2dB MCS 6 18dBm 23dBm ±2dB -79dBm ±2dB MCS 6 18dBm 23dBm ±2dB -79dBm ±2dB MCS 7 16dBm 21dBm ±2dB -77dBm ±2dB MCS 0 20dBm 25dBm ±2dB -93dBm ±2dB	2.4GHz	MCS 0	21dBm	26dBm	±2dB	-94dBm	±2dB
2.4GHz 802.11n HT20 MCS 3 20dBm 25dBm ±2dB -84dBm ±2dB MCS 4 20dBm 25dBm ±2dB -83dBm ±2dB MCS 5 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	21dBm	26dBm	±2dB	-92dBm	±2dB
802.11n 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 -77dBm ±2dB MCS 7 16dBm 21dBm ±2dB -77dBm ±2dB MCS 0 20dBm 25dBm ±2dB -93dBm ±2dB		MCS 2	21dBm	26dBm	±2dB	-89dBm	±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 -77dBm ±2dB		MCS 3	20dBm	25dBm	±2dB	-84dBm	±2dB
MCS 6 18dBm 23dBm ±2dB -79dBm ±2dB MCS 7 16dBm 21dBm ±2dB -77dBm ±2dB MCS 0 20dBm 25dBm ±2dB -93dBm ±2dB		MCS 4	20dBm	25dBm	±2dB	-83dBm	±2dB
MCS 7 16dBm 21dBm ±2dB -77dBm ±2dB MCS 0 20dBm 25dBm ±2dB -93dBm ±2dB		MCS 5	20dBm	25dBm	±2dB	-80dBm	±2dB
MCS 0 20dBm 25dBm ±2dB -93dBm ±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 1	20dBm	25dBm	±2dB	-91dBm	±2dB
MCS 2 20dBm 25dBm ±2dB -89dBm ±2dB		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 5	19dBm	24dBm	±2dB	-80dBm	±2dB
MCS 6 18dBm 23dBm ±2dB -79dBm ±2dB		MCS 6	18dBm	23dBm	±2dB	-79dBm	±2dB
MCS 7 16dBm 21dBm ±2dB -75dBm ±2dB		MCS 7	16dBm	21dBm	±2dB	-75dBm	±2dB



	Data Rate	TX Power (per chain)	TX Power (3 chains)	Tolerance	RX Specifications Sensitivity	Tolerance
	6Mbps	20dBm	25dBm	±2dB	-94dBm	±2dB
	9Mbps	20dBm	25dBm	±2dB	-94dBm	±2dB
	12Mbps	20dBm	25dBm	±2dB	-92dBm	±2dB
5GHz	18Mbps	20dBm	25dBm	±2dB	-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 VHT20	MCS 4	18dBm	23dBm	±2dB	-80dBm	±2dB
VH120	MCS 5	17dBm	22dBm	±2dB	-77dBm	±2dB
	MCS 6	16dBm	21dBm	±2dB	-74dBm	±2dB
	MCS 7	14dBm	19dBm	±2dB	-73dBm	±2dB
	MCS 8	13dBm	18dBm	±2dB	-71dBm	±2dB
	MCS 0	18dBm	23dBm	±2dB	-90dBm	±2dB
	MCS 1	18dBm	23dBm	±2dB	-88dBm	±2dB
	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
5GHz 802.11ac VHT80	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
	MCS 4	17dBm	22dBm	±2dB	-80dBm	±2dB
	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

All standard models are non-conformal coating, optional conformal coating are with –C model name; Optional bypass models are available with –BT model name; QMA connector models are with –Q model name; -40~70C operational model are with –E model name

- TPWAP-5006-1AC-WV-65......P/N: 8655-002
- EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway**; dual 16.8~137.5VDC; IP65; -20~70C
- TPWAP-5006-2AC-WV-65......P/N: 8655-004 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway**; dual 16.8~137.5VDC; IP65; -20~70C
- TPWAP-5006-1AC-WV-54......P/N: 8655-006 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway**; dual 16.8~137.5VDC; IP65; -20~70C
- TPWAP-5006-2AC-WV-54......P/N: 8655-008 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway**; dual 16.8~137.5VDC; IP65; -20~70C
- TPWAP-5006-1AC-2S-WV-65.....P/N: 8655-013 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway**; dual 16.8~137.5VDC; IP65; -20~70C

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incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway**; dual 16.8~137.5VDC; IP65; -20~70C

- TPWAP-5006-1AC-2SB-WV-65.....P/N:8655-015 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway**; dual 16.8~137.5VDC; IP65; -20~70C
- TPWAP-5006-2AC-2S-WV-65.....P/N: 8655-017 EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway**; dual 16.8~137.5VDC; IP65; -20~70C
- TPWAP-5006-2AC-2SA-WV-65.....P/N:8655-018 EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway**; dual 16.8~137.5VDC; IP65; -20~70C
- TPWAP-5006-2AC-2SB-WV-65.....P/N:8655-019 EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway**; dual 16.8~137.5VDC; IP65; -20~70C
- TPWAP-5006-1AC-2S-WV-54.....P/N: 8655-023 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway**; dual 16.8~137.5VDC; IP54; -20~70C
- TPWAP-5006-1AC-2SA-WV-54.....P/N:8655-024 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway**; dual 16.8~137.5VDC; IP54; -20~70C
- TPWAP-5006-1AC-2SB-WV-54.....P/N:8655-025 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway**; dual 16.8~137.5VDC; IP54; -20~70C
- TPWAP-5006-2AC-2S-WV-54.....P/N: 8655-027 EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway**; dual 16.8~137.5VDC; IP54; -20~70C
- TPWAP-5006-2AC-2SA-WV-54.....P/N:8655-028 EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway**; dual 16.8~137.5VDC; IP54; -20~70C
- TPWAP-5006-2AC-2SB-WV-54.....P/N:8655-029 EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded Ethernet Managed Switch incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway**; dual 16.8~137.5VDC; IP54; -20~70C

Software License

LOAD BALANCING Full Package......P/N: 9000-102

OPTIONAL ACCESSORIES

Management System

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

Wi-Fi Antenna

ANT11000055

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





ANT11000090

2.4/5GHz omnidirectional Wi-Fi antenna, 802.11ac 3x3 MIMO, 5dBi, IP67, cable length: 3M





Antenna Base

ADA11000052

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





Lantech Communications Global Inc.

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