

T(P)WAP-5006

EN50155 Multifunction VPN Router w/1x WiFi 11ac + 2 serial ports** + 6 Gigabit X-coded Ethernet switch (incl. 4 PoE ports) w/ Load Balancing, VPN, Protocol Gateway, Storage**; WV input

- Built-in 6 Gigabit X-coded Ethernet managed switch
- PoE model w/4 PoE at/af Switch at 60W budget
- 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; Detachable antenna connectors with 6 SMA/QMA** type incl. 3
- 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, L2 over GRE, IPGRE
- Optional EMMC Flash storage on-board**
- Load Balancing built-in 5 mechanism
- Support NAT and Firewall
- Support Client-base roaming
- Supports AP/ Bridge/Client/MESH modes
- Support 802.11s Wireless Mesh Network
- Optional support Modbus gateway on serial ports**
- Support 2 RS422/RS485 ports with 2.5KV isolation or 2x RS232 ports
- Optional 2 GT smart bypass protection
- Galvanic isolation on WV model from 16.8V~137.5V input
- 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
- EN50155/EN61373/EN45545-2 verification























OVERVIEW

Lantech T(P)WAP-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 (PoE model) + 2 serial ports** that supports advanced function of VPN. Load-Balancing, EMMC Flash Storage**, Protocol gateway, and Wi-Fi roaming 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, T(P)WAP-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 roaming

T(P)WAP-5006 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)

T(P)WAP-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



With 2 serial ports



Without 2 serial ports



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 standard SMA / optional QMA type connectors

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

Wireless WMM QoS

T(P)WAP-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 T(P)WAP-5006 support up to 16 SSIDs, each SSID has its independent security and encryption.

Load Balancing with 5 mechanisms for multi-WANs

T(P)WAP-5006 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.

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

Besides traditional VPN peer to peer tunneling, T(P)WAP-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, 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.

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

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 T(P)WAP-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 T(P)WAP-5006 is able to work from dual $16.8V \sim 137.5V$ DC input (WV model) and PoE model built-in 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 T(P)WAP-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 T(P)WAP-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 T(P)WAP-5006 is best for outdoor community, vehicle, power substation, process control automation etc application. For more usage flexibilities, T(P)WAP-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
- PoE model 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
- 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 Client-base roaming
- 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 / MESH
- 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 Multi-Site VPN for Mesh tunneling as well as Open VPN, L2TP over IPsec, IPsec, 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.

- 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



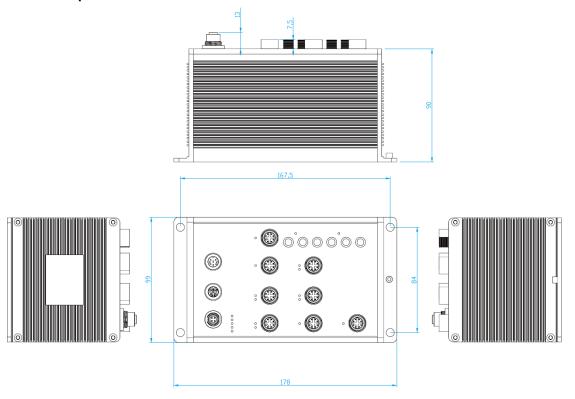
- Support LLDP discovery protocol
- Support DHCP Server and Client
- Graphic WI-FI signal strength
- Built-in environmental monitoring for system input voltage, current and ambient temperature; Able to set alert when abnormal
- Support editable captive portal login page
- Firmware upgradeable through TFTP/HTTP
- Configuration backup and restoration
 - Supports text configuration file for system quick

installation

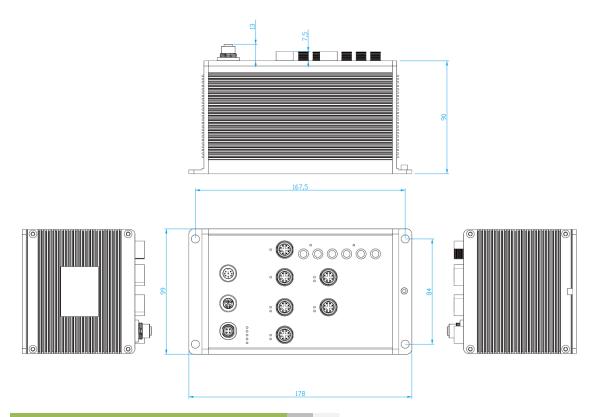
- USB port to upload/download firmware by USB donale
- Dual image firmware
- IP 65/54 housing for water proof environment
- Wall-mount installation
- Visible LED to show the power & port link and activity
- Operation temperature -20~70C or -40°C to 70°C(-E)
- EN45545-2 Fire & Smoke, EN50155 and EN61373 shock/vibration verification

DIMENSIONS (unit=mm)

With serial ports







SPECIFICATION

WLAN Interf	ace		13/13/13dBm @ MCS8 (VHT20/40/80)
Radio Frequency	DSSS, OFDM		13/13dBm @ MCS9 (VHT40/80)
Туре			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
Wilcioso ballawidali	2.4GHz: Up to 450Mbps		≦-81dBm @ 48Mbps
Modulation	802.11b: DSSS		≦-80dBm @ 54Mbps
Modulation	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-QAM)	Encryption Security	WEP : (64-bit ,128-bit key supported)
Operating	IEEE 802.11 a/b/g/n ISM Band,		WPA /WPA2 : IEEE802.11i(WEP and AES encryption)
Frequency	2.412GHz~2.472GHz, 5150MHz~5850MHz		WPA-PSK (256-bit key pre-shared key supported)
Transmission Rate	IEEE802.11ac: up to 1300Mbps		EAP-TLS,EAP-TTLS, PEAP
Hansinission Rate	IEEE802.11b: 1 / 2 / 5.5 / 11 Mbps	Wireless Security	SSID broadcast disable
	IEEE802.11a/g: 6 / 9 / 12 / 18 / 24 / 36 / 48 / 54 Mbps	Software	
	IEEE802.11n: up to 450Mbps	IPv6/4	Present
IEEE	Output Power Tx +/- 2dB(per chain)	Operation Mode	AP/Bridge/Client/MESH mode
802.11b/g/n(2.4Gbp	18dBm @ 1~11Mbps	Login Security	Supports IEEE802.1x Authentication/RADIUS
	18dBm @ 6~54Mbps	Access Security	HTTP/HTTPS/TeInet/SSH & Administration; SNMP
	20/20dBm @ MCS0~MCS7 (HT20/40)		v1/v2/v3 access for authentication via MD5/SHA(v3)
	Receiver Sensitivity Rx +/- 2dB		and Encryption via DES/AES(v3)
	≦-95dBm @ 1~11Mbps	Protocol	PPPoE Client, DHCP server/client, Adjustable MTU,
	≤-92dBm @ 6~18Mbps		Port forwarding (NAPT), DMZ; NAT, SNTP, Firewall(Firewall(DDoS; IP address filter / Mac
	≤-88dBm @ 24Mbps		address filter / TCP/UDP port number), VRRP,
	≦-85dBm @ 36Mbps		DDNS
	= -81dBm @ 48Mbps	Routing	Static route / RIPv2 / OSPF / BGP / EIGRP
	≦-80dBm @ 54Mbps	Management	SNMP v1,v2c,v3/ Web/Telnet/CLI
	≦-94dBm @ MCS0 (HT20/40)	Load Balancing	5 schemes for multiple WAN
	≦-76dBm @ MCS7 (HT20/40)	Basic	
IEEE	Output Power Tx +/- 2dB(per chain)	Fixed	All traffic will be distributed to a single WAN.
802.11a/n/ac(5Gbp	20dBm @ 6~24Mbps	Failover	Routes connections through preferred WAN link
	16dBm @ 36~54Mbps		while others stand-by. Sequentially activating another
	19/18dBm @ MCS0 (HT20/40)		link if the preferred link fails.
	16/16dBm @ MCS7 (HT20/40)	Driority	Select the active WAN according to priority.
	19/18/18dBm @ MCS0 (VHT20/40/80)	Priority	<u> </u>
		Weighted Round-	Evenly distribute the traffic over all working WAN



	I	DI/DO	2 Digital Input (DI):
Robin	links in circular order according to the specified		2 Digital Input (DI): Level 0: -30~2V / Level 1: 10~30V
	weights		Max. input current:8mA
Custom Route	Routing through the selected WAN for each specific		2 Digital Output(DO): Open collector to 80 VDC,
	traffic ex: TCP/UDP port number and IP address.		50mA
Roaming	Client-base roaming	LED Indicate	ors
MESH	Support 802.11s Wireless Mesh Network		Per unit: Power 1 (Green), Power 2 (Green), P-Fail
WMM	Wi-Fi multimedia and 802.11e traffic prioritization	Power & System	(Red), Ring Master(Green),
Security	WEP64/128bits/ WPA/ WPA-PSK (TKIP,AES)/ WPA2/	indicator	Serial1/Serial2(Green) ,Ready(Green)
Authentication	WPA2-PSK (TKIP,AES)/SSH/SSL/HTTPS Radius Authentication, EAP-TLS, EAP-TTLS, PEAP;	10/100/1000Base-	Link/Activity (Green), Speed (Yellow), PoE (Green,
Authentication	SSID broadcast disable supported	T(X) port indicator	PoE model)
SSID	16 sets	Fault	Red: Ethernet link down or power down
Timer	Built-in Real Time Clock to keep track of time	Fault contact	ct control of the con
	always(RTC)	Relay	Relay output to carry capacity of 1A at 24VDC
Discovery	IEEE 802.1ab Link Layer Discovery Protocol (LLDP)	Power	
SNMP trap	Device cold / warm start	Input power	Dual DC input, 16.8VDC~137.5VDC for (WV model)
	Port link up / link down	System power	30.5W
	DI / DO high / low		60W
Environmental	System status for input voltage, current , ambient	PoE Budget (PoE model)	OUVV
Monitoring	temperature to be shown in GUI and sent alerting if	EMMC Storage**	8/16/32 GB
	any abnormal status		
Graphic signal	Graphic Wi-Fi signal strength	Physical Ch	
display		Enclosure	IP 65/54 aluminum case
Remote Web	To reboot or get status of router by Web	Dimension	178 (W) x 99 (D) x 103 (H) mm
control		Weight	1000g
Captive portal	Editable captive portal login page	Environmen	ital
Maintenance	Firmware upgradeable through TFTP/HTTP	Storage	-40°C ~ 85°C (-40°F ~ 185°F)
Configuration	Supports text configuration file for quick system	Temperature	0000 7000 / 405 45005)
backup & restore	installation	Operating Temperature	-20°C ~ 70°C (-4°F ~ 158°F) -40°C ~ 70°C (-40°F ~ 158°F)
	USB port to upload/download firmware by USB dongle	Operating Humidity	5% to 95% Non-condensing
	Dual image firmware	Regulatory	· · · · · · · · · · · · · · · · · · ·
Dhysical De		EMC	FCC Part 15 Class A, EN55032 , EN55024
	rts & System	EMS	EN61000-4-2 (ESD), EN61000-4-3 (RS), EN61000-
Connectors	10/100/1000T: 6x ports M12 8-pole X-coded(PoE	EIVIO	4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS),
	model incl 4 PoE ports)		EN61000-4-8, EN61000-6-2
	USB/Console connector: 1 x M12 8-pole A-coded	Radio Frequency	EN 301 489-1,
	DI/DO: 1 x M12 5-pole A-coded	radio r requeriey	EN 301 489-17,
	Power Input connector: 1 x M12 4-pole A-coded		EN 301 489-19,
	Optional Serial connector : 2 x M12 8-pole X-coded RP-SMA/QMA** connector for Wi-Fi 2AC: 6 (female)		EN 301 489-52,
	RP-SMA/QMA** connector for Wi-Fi 1AC: 3 (female)		EN 300 440,
Serial Baud Rate**	1000Kbps high data rate, 250kbps normal for		EN 301 893,
Ochai Dadu Itato	RS232 ; 20Mbps high data rate, 250kbps normal for		EN 300 328,
	RS422/RS485		EN 62311
Serial Data Bits**	5, 6, 7, 8	Safety	EN60950 (LVD), AS60950 (LVD)
Serial Parity**	odd, even, none, mark, space	Stability Testing	EN61373 (Shock & Vibration)
Serial Stop Bits**	1, 1.5, 2	Verifications &	EN50155, EN50121-3-2, EN50121-4 verification
RS-232**	TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND	report	EN45545-2 R13/R22/R23/R24/R25 (EN ISO 4589-2,
RS-422**	Tx+, Tx-, Rx+, Rx-, GND		EN ISO 5659-2, NF X70-100-1 & 2) Fire & Smoke
RS-485 (2-wire) **	Data+, Data-, GND		verification
Isolation protection	RS422/RS485 2.5KV isolation; 8KV contact & 15KV	MTBF	NA
	air	Warranty	5 years
	RS232 8KV contact and 15KV air ESD		*Future Release
	DIDO 2.5KV isolation		**Optional
	Input power 1.5KVA isolation		

RF Performance Table



	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
2.4GHz 802.11n HT40	MCS 1	20dBm	25dBm	±2dB	-91dBm	±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 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
	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
FOLI-	MCS 3	18dBm	23dBm	±2dB	-83dBm	±2dB
5GHz 802.11n/ac	MCS 4	18dBm	23dBm	±2dB	-80dBm	±2dB
VHT20	MCS 5	17dBm	22dBm	±2dB	-77dBm	±2dB
	MCS 6	16dBm	21dBm	±2dB	-74dBm	±2dB
	MCS 7	14dBm	19dBm	±2dB	-73dBm	±2dB
	MCS 8	13dBm	18dBm	±2dB	-71dBm	±2dB
	MCS 0	18dBm	23dBm	±2dB	-90dBm	±2dB
	MCS 1	18dBm	23dBm	±2dB	-88dBm	±2dB
	MCS 2	18dBm	23dBm	±2dB	-85dBm	±2dB
	MCS 3	17dBm	22dBm	±2dB	-82dBm	±2dB
5GHz	MCS 4	17dBm	22dBm	±2dB	-80dBm	±2dB
802.11n/ac 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
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

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
- TPWAP-5006-1AC-2SA-WV-65......P/N:8655-014
 - 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; IP65; -20~70C



incl.4 PoE atriaf with Load Balancing, VPN, Protocol Gateway, dual 16.8–137.5VDC; IP65; 20-7 IPWAP-5006-2AC-2S-WV-65. PN: 8855-017 EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded incl.4 PoE atriaf with Load Balancing, VPN, Protocol Gateway, dual 16.8–137.5VDC; IP85; 20-7 IPWAP-5006-2AC-2S-AWV-65. PN: 8855-018 EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 PoE atriaf with Load Balancing, VPN, Protocol Gateway, dual 16.8–137.5VDC; IP65; 20-7 IPWAP-5006-2AC-2S-B-WV-65. PN: 8855-019 EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS465 ports + 6 Gigabit X-coded incl.4 PoE atriaf with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP65; 20-7 IPWAP-5006-1AC-2S-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 PoE atriaf with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP64; 20-7 IPWAP-5006-1AC-2S-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 PoE atriaf with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP64; 20-7 IPWAP-5006-1AC-2SB-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS45 ports + 6 Gigabit X-coded incl.4 PoE atriaf with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP64; 20-7 IPWAP-5006-1AC-2SB-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS452 ports + 6 Gigabit X-coded incl.4 PoE atriaf with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP64; 20-7 IPWAP-5006-2AC-2SA-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 PoE atriaf with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP64; 20-7 IPWAP-5006-2AC-2SB-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 PoE atriaf with Load Balancing, VPN, VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Giga	1C
EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded incl.4 PDE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VDC: IP66; -20-7 TPWAP-5006-2AC-2SA-WV-85	
Incid a PoE at/aff with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP65; -20–7 TPWAP-5006-2AC-2SA-WV-65. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incid a PoE at/aff with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP65; -20–7 TPWAP-5006-2AC-2SB-WV-65. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incid a PoE at/aff with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP65; -20–7 TPWAP-5006-1AC-2S-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS482 ports + 6 Gigabit X-coded incid a PoE at/aff with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-1AC-2Sa-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incid a PoE at/aff with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-1AC-2SB-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS482 ports + 6 Gigabit X-coded incid A PoE at/aff with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-1AC-2SB-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS480 ports + 6 Gigabit X-coded incid A PoE at/aff with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2S-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS480 ports + 6 Gigabit X-coded incid A PoE at/aff with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2Sa-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS480 ports + 6 Gigabit X-coded incid A PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2SB-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS480 ports + 6 Gigabit X-coded incid A PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TWAP-5006-1AC-2SB-WV-54. EN5	
TPWAP-5006-2AC-2SA-WV-65. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac +2 serial RS422 ports +6 Gigabit X-coded incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VDC: [P65; .20-7 TPWAP-5006-2AC-2SB-WV-65. PN: 8655-019 EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac +2 serial RS485 ports +6 Gigabit X-coded incl.4 POE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VDC: [P65; -20-7 TPWAP-5006-1AC-2S-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac +2 serial RS422 ports +6 Gigabit X-coded incl.4 POE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VDC: [P54; -20-7 TPWAP-5006-1AC-2SA-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac +2 serial RS422 ports +6 Gigabit X-coded incl.4 POE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VDC: [P54; -20-7 TPWAP-5006-1AC-2SB-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac +2 serial RS485 ports +6 Gigabit X-coded incl.4 POE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VDC: [P54; -20-7 TPWAP-5006-1AC-2SB-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac +2 serial RS485 ports +6 Gigabit X-coded incl.4 PDE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VDC: [P54; -20-7 TPWAP-5006-2AC-2Sa-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac +2 serial RS422 ports +6 Gigabit X-coded incl.4 PDE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VDC: [P54; -20-7 TPWAP-5006-2AC-2Sa-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac +2 serial RS422 ports +6 Gigabit X-coded incl.4 PDE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VDC: [P54; -20-7 TPWAP-5006-2AC-2Sa-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac +2 serial RS422 ports +6 Gigabit X-coded incl.4 PDE at/a with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VDC: [P54; -20-7 TPWAP-5006-2AC-2Sa-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac +2 serial RS422 ports +6 Gigabit X-coded Load Balancing, VPN, dual 1	
EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 PDE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VDC: IP65; -20-7 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 incl.4 PDE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VDC: IP65; -20-7 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 incl.4 PDE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VDC: IP54; -20-7 TPWAP-5006-1AC-2SA-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 PDE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VDC: IP54; -20-7 TPWAP-5006-1AC-2SB-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS425 ports + 6 Gigabit X-coded incl.4 PDE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VDC: IP54; -20-7 TPWAP-5006-2AC-2S-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS425 ports + 6 Gigabit X-coded incl.4 PDE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VDC: IP54; -20-7 TPWAP-5006-2AC-2S-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 PDE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-37.5VDC: IP54; -20-7 TPWAP-5006-2AC-2SA-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 PDE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VDC: IP54; -20-7 TPWAP-5006-2AC-2SB-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl.4 PDE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-317.5VDC: IP54; -20-7 TWAP-5006-1AC-2S-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS482 ports + 6 Gigabit X-coded Load Balancing, VPN, dua	OC .
incl 4 poE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP65; -20–7 TPWAP-5006-2AC-2SB-WV-65. PN:8655-019 EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl 4 poE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP65; -20–7 TPWAP-5006-1AC-2S-WV-54. PN:8655-023 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl 4 poE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP64; -20–7 TPWAP-5006-1AC-2SB-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl 4 poE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP64; -20–7 TPWAP-5006-1AC-2SB-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl 4 poE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP64; -20–7 TPWAP-5006-1AC-2SB-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl 4 poE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP64; -20–7 TPWAP-5006-2AC-2S-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl 4 poE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP64; -20–7 TPWAP-5006-2AC-2SA-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl 4 poE at/a with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP64; -20–7 TPWAP-5006-1AC-W-65. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet managed swit dual 16.8V-137.5VDC; IP65; -20–70C TWAP-5006-1AC-W-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5VDC; IP65; -20–70C TWAP-5006-1AC-2S-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Load Balancing	E
TPWAP-5006-2AC-2SB-WV-65. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl.4 PoE atdf with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5/VDC; IP65; 20-7 TPWAP-5006-1AC-2S-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS222 ports + 6 Gigabit X-coded incl.4 POE atdf with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5/VDC; IP65; 20-7 TPWAP-5006-1AC-2SB-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 POE atdf with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5/VDC; IP54; -20-7 TPWAP-5006-1AC-2SB-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl.4 POE atdf with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5/VDC; IP54; -20-7 TPWAP-5006-1AC-2SB-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl.4 POE atdf with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5/VDC; IP54; -20-7 TPWAP-5006-2AC-2S-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 POE atdf with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5/VDC; IP54; -20-7 TPWAP-5006-2AC-2SA-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 POE atdf with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5/VDC; IP54; -20-7 TPWAP-5006-2AC-2SB-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl.4 POE atdf with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5/VDC; IP54; -20-7 TWAP-5006-1AC-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl.4 pOE atdf with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5/VDC; IP54; -20-7 TWAP-5006-1AC-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5VDC; I	
EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl.4 PDc at/at with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP65; 20–7 TPWAP-5006-1AC-2x-WV-54. PNN: 8655-023 EN50155 Multifunction VPN Router wf1x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded incl.4 PDc at/at with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-1AC-2x-WV-54. EN50155 Multifunction VPN Router wf1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 PDc at/at with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-1AC-2xB-WV-54. EN50155 Multifunction VPN Router wf1x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl.4 PDc at/at with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2x-WV-54. EN50155 Multifunction VPN Router wf2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded incl.4 PDc at/at with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2x-WV-54. EN50155 Multifunction VPN Router wf2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded incl 4 PDc at/at with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2x-WV-54. EN50155 Multifunction VPN Router wf2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl 4 PDc at/at with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2x-W-54. EN50155 Multifunction VPN Router wf2x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet managed swit dual 16.8-137.5VDC; IP55; -20–70C TWAP-5006-1AC-2x-WV-65. EN50155 Multifunction VPN Router wf1x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet managed swit dual 16.8-137.5VDC; IP55; -20–70C TWAP-5006-1AC-2x-WV-65. EN50155 Multifunction VPN Router wf1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5VDC; IP65; -20–70C TWAP-5006-1AC-2x-WV-65. EN50155 Multifunction VPN Router wf1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Giga	JC
incl 4 PoE at/sif with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP65; -20–7 TPWAP-5006-1AC-29-WY-54 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded incl 4 PoE at/sif with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-1AC-2SA-WV-54 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS242 ports + 6 Gigabit X-coded incl 4 PoE at/sif with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-1AC-2SB-WV-54 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl 4 PoE at/sif with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2S-WV-54 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl 4 PoE at/sif with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2S-WV-54 EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded incl 4 PoE at/sif with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2SB-WV-54 EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl 4 PoE at/sif with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2SB-WV-54 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl 4 PoE at/sif with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–70 TTWAP-5006-1AC-WS-65 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet managed swit dual 16.8V-137.5VDC; IP65; -20–70C TWAP-5006-1AC-2S-WV-65 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5VDC; IP65; -20–70C TWAP-5006-1AC-2S-WV-65 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5VDC; IP	Ethornot Monogod
TPWAP-5006-1AC-2S-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded incl.4 PoE atrix with Load Balancing, VPN, Protocol Cateway; dual 16.8 + 317.5/VDc; IP54; -20-7 TPWAP-5006-1AC-2SA-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 PoE atrix with Load Balancing, VPN, Protocol Cateway; dual 16.8 + 317.5/VDc; IP54; -20-7 TPWAP-5006-1AC-2SB-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl.4 PoE atrix with Load Balancing, VPN, Protocol Cateway; dual 16.8 + 317.5/VDc; IP54; -20-7 TPWAP-5006-2AC-2S-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded incl.4 PoE atrix with Load Balancing, VPN, Protocol Cateway; dual 16.8 + 317.5/VDc; IP54; -20-7 TPWAP-5006-2AC-2SA-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded incl.4 PoE atrix with Load Balancing, VPN, Protocol Cateway; dual 16.8 + 317.5/VDc; IP54; -20-7 TPWAP-5006-2AC-2SB-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl.4 PoE atrix with Load Balancing, VPN, Protocol Cateway; dual 16.8 + 317.5/VDc; IP54; -20-7 TWAP-5006-1AC-WV-65. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 6 Gigabit X-coded tincl.4 PoE atrix with Load Balancing, VPN, Protocol Cateway; dual 16.8 - 317.5/VDc; IP54; -20-7 TWAP-5006-1AC-WV-65. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet managed swit dual 16.8V-137.5/VDc; IP65; -20-70C TWAP-5006-1AC-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS432 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5/VDc; IP65; -20-70C TWAP-5006-1AC-2SA-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS432 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5/VDc; IP65; -20-70C TWAP-5006-1AC-2SB-WV-65. EN7N: 8652-025 EN50155 Multifunction VPN Router w	o o
EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded incl.4 PoE at/at with Load Balancing, VPN, Protocol Cateway; dual 16.8–137.5VDC; IP54; 20–7 TPWAP-5006-1AC-2SA-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 PoE at/at with Load Balancing, VPN, Protocol Cateway; dual 16.8–137.5VDC; IP54; 20–7 TPWAP-5006-1AC-2SB-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl.4 PoE at/at with Load Balancing, VPN, Protocol Cateway; dual 16.8–137.5VDC; IP54; 20–7 TPVAP-5006-2AC-2S-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded incl.4 PoE at/at with Load Balancing, VPN, Protocol Cateway; dual 16.8–137.5VDC; IP54; 20–7 TPVAP-5006-2AC-2SA-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded incl.4 PoE at/at with Load Balancing, VPN, Protocol Cateway; dual 16.8–137.5VDC; IP54; 20–7 TPVAP-5006-2AC-2SB-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 PoE at/at with Load Balancing, VPN, Protocol Cateway; dual 16.8–137.5VDC; IP54; 20–7 TPVAP-5006-2AC-2SB-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl.4 poE at/at with Load Balancing, VPN, Protocol Cateway; dual 16.8–137.5VDC; IP54; 20–7 TWAP-5006-1AC-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet managed swit dual 16.8V-137.5VDC; IP55; 20–70C TWAP-5006-1AC-2SB-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5VDC; IP65; 20–70C TWAP-5006-1AC-2SB-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5VDC; IP65; 20–70C TWAP-5006-2AC-2SB-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gi	
incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-1AC-2SA-WV-54. P/N:8655-024 ENSO155 Multifunction VPN Router w/rx Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-1AC-2SB-WV-54. P/N:8655-025 ENSO155 Multifunction VPN Router w/rx Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2S-WV-54. P/N: 8655-027 TPWAP-5006-2AC-2S-WV-54. P/N: 8655-027 TPWAP-5006-2AC-2S-WV-54. P/N: 8655-027 TPWAP-5006-2AC-2S-WV-54. P/N: 8655-027 TPWAP-5006-2AC-2S-WV-54. P/N: 8655-028 ENSO155 Multifunction VPN Router w/zx Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2SB-WV-54. P/N: 8655-028 ENSO155 Multifunction VPN Router w/zx Wi-Fi 11ac + 2 serial RS482 ports + 6 Gigabit X-coded incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-1AC-WV-65. P/N: 8652-021 ENSO155 Multifunction VPN Router w/zx Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP65; -20–70C TWAP-5006-1AC-WV-65. P/N: 8652-021 ENSO155 Multifunction VPN Router w/zx Wi-Fi 11ac + 6 Gigabit X-coded Ethernet managed swit dual 16.8V-137.5VDC; IP65; -20–70C TWAP-5006-1AC-Sa-WV-65. P/N: 8652-023 ENSO155 Multifunction VPN Router w/zx Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5VDC; IP65; -20–70C TWAP-5006-1AC-2Sa-WV-65. P/N: 8652-025 ENSO155 Multifunction VPN Router w/x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5VDC; IP65; -20–70C TWAP-5006-1AC-2Sa-WV-65. P/N: 8652-025 ENSO155 Multifunction VPN Router w/zx Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded	Ethernet Managed
TPWAP-5006-1AC-2SA-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl 4 PoE at/4 with Load Balancing, VPN, Protocol Gateway; dual 16.8—137.5VDC; IP54; -20-7 TPWAP-5006-1AC-2SB-WV-54. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl 4 PoE at/4 with Load Balancing, VPN, Protocol Gateway; dual 16.8—137.5VDC; IP54; -20-7 TPWAP-5006-2AC-2S-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded incl 4 PoE at/4 with Load Balancing, VPN, Protocol Gateway; dual 16.8—137.5VDC; IP54; -20-7 TPWAP-5006-2AC-2S-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded incl 4 PoE at/4 with Load Balancing, VPN, Protocol Gateway; dual 16.8—137.5VDC; IP54; -20-7 TPWAP-5006-2AC-2SB-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl 4 PoE at/4 with Load Balancing, VPN, Protocol Gateway; dual 16.8—137.5VDC; IP54; -20-7 TPWAP-5006-2AC-2SB-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl.4 PoE at/4 with Load Balancing, VPN, Protocol Gateway; dual 16.8—137.5VDC; IP54; -20-7 TWAP-5006-1AC-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet managed swit dual 16.8V-137.5VDC; IP65; -20-70C TWAP-5006-1AC-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5VDC; IP65; -20-70C TWAP-5006-1AC-2SB-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5VDC; IP65; -20-70C TWAP-5006-1AC-2SB-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS432 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5VDC; IP65; -20-70C TWAP-5006-1AC-2SB-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS435 ports + 6 Gigabit X-	0
EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VPC; IPS4; -20-7 TPWAP-5006-1AC-2SB NW-54. P/N:8655-025 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VPC; IPS4; -20-7 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 incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VPC; IPS4; -20-7 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 incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VPC; IP54; -20-7 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 incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VPC; IP54; -20-7 TWAP-5006-1AC-WV-65. P/N: 8652-021 EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 6 Gigabit X-coded tincl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8-137.5VPC; IP54; -20-7 TWAP-5006-1AC-WV-65. P/N: 8652-021 EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet managed swit dual 16.8V-137.5VPC; IP65; -20-70C TWAP-5006-1AC-WV-65. P/N: 8652-023 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5VPC; IP65; -20-70C TWAP-5006-1AC-2SA-WV-65. P/N: 8652-023 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5VPC; IP65; -20-70C TWAP-5006-1AC-2SB-WV-65. P/N: 8652-027 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5VPC; IP65; -20-70C TWAP-5006-2AC-2SB-WV-65. P/N: 8652-02	
incl 4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 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 incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2S-WV-54. P/N: 8652-027 EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2SA-WV-54. P/N:8655-028 EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 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 incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-1AC-WV-65. P/N:8652-021 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet managed swit dual 16.8V-137.5VDC; IP65; -20–70C TWAP-5006-2AC-WV-65. P/N: 8652-022 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet managed swit dual 16.8V-137.5VDC; IP65; -20–70C TWAP-5006-1AC-WV-65. P/N: 8652-023 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5VDC; IP65; -20–70C TWAP-5006-1AC-2SA-WV-65. P/N: 8652-023 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5VDC; IP65; -20–70C TWAP-5006-1AC-2SA-WV-65. P/N: 8652-027 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5VDC; IP65; -20–70C TWAP-5006-1AC-2SA-WV-65. P/N: 8652-025 EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V-137.5VDC; IP65;	Ethernet Managed 3
TPWAP-5006-1AC-2SB-WV-54	
EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8.–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2S-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8.–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2SA-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8.–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2SB-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8.–137.5VDC; IP54; -20–7 TPWAP-5006-1AC-WV-65. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8.–137.5VDC; IP54; -20–7 TWAP-5006-1AC-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet managed swit dual 16.8V–137.5VDC; IP65; -20–70C TWAP-5006-2AC-WV-65. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V–137.5VDC; IP65; -20–70C TWAP-5006-1AC-2S-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V–137.5VDC; IP65; -20–70C TWAP-5006-1AC-2S-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V–137.5VDC; IP65; -20–70C TWAP-5006-1AC-2S-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V–137.5VDC; IP65; -20–70C TWAP-5006-2AC-2S-WV-65. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V–137.5VDC; IP65; -20–70	
incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20-7 TPWAP-5006-2AC-2S-WV-54	Ethernet Managed S
TPWAP-5006-2AC-2S-WV-54. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 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 incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 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 incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TWAP-5006-1AC-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet managed swit dual 16.8V–137.5VDC; IP65; -20–70C TWAP-5006-2AC-WV-65. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet managed swit dual 16.8V–137.5VDC; IP65; -20–70C TWAP-5006-1AC-VS-6WV-65. EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS432 ports + 6 Gigabit X-coded Lad Balancing, VPN, vall 416.8V–37.5VDC; IP65; -20–70C TWAP-5006-1AC-2S-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V–137.5VDC; IP65; -20–70C TWAP-5006-1AC-2SA-WV-65. P/N: 8652-023 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V–137.5VDC; IP65; -20–70C TWAP-5006-1AC-2SB-WV-65. P/N: 8652-027 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V–137.5VDC; IP65; -20–70C TWAP-5006-2AC-2SB-WV-65. P/N: 8652-025 EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V–137.5VDC; IP65; -20–70C TWAP-5006-2AC-2SB-WV-65. EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V–137.5VDC; IP65; -	0
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incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2SA-WV-54	Ethernet Managed 5
TPWAP-5006-2AC-2SA-WV-54	
incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TPWAP-5006-2AC-2SB-WV-54	
TPWAP-5006-2AC-2SB-WV-54	Ethernet Managed
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incl.4 PoE at/af with Load Balancing, VPN, Protocol Gateway; dual 16.8–137.5VDC; IP54; -20–7 TWAP-5006-1AC-WV-65	
TWAP-5006-1AC-WV-65	Ethernet Managed S
EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet managed swit dual 16.8V-137.5VDC; IP65; -20-70C TWAP-5006-2AC-WV-65	0C
dual 16.8V~137.5VDC; IP65; -20~70C TWAP-5006-2AC-WV-65	
TWAP-5006-2AC-WV-65	ch for Load Balanci
EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet managed swit dual 16.8V~137.5VDC; IP65; -20~70C TWAP-5006-1AC-2S-WV-65	
tual 16.8V-137.5VDC; IP65; -20-70C TWAP-5006-1AC-2S-WV-65	
TWAP-5006-1AC-2S-WV-65	ch for Load Balancii
EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V~137.5VDC; IP65; -20~70C TWAP-5006-1AC-2SA-WV-65	
Load Balancing, VPN, dual 16.8V~137.5VDC; IP65; -20~70C TWAP-5006-1AC-2SA-WV-65	
TWAP-5006-1AC-2SA-WV-65	Ethernet managed s
EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V~137.5VDC; IP65; -20~70C TWAP-5006-1AC-2SB-WV-65	
Load Balancing, VPN, dual 16.8V~137.5VDC; IP65; -20~70C TWAP-5006-1AC-2SB-WV-65	
TWAP-5006-1AC-2SB-WV-65	Ethernet managed s
EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V~137.5VDC; IP65; -20~70C TWAP-5006-2AC-2S-WV-65	
TWAP-5006-2AC-2S-WV-65	
TWAP-5006-2AC-2S-WV-65	Ethernet managed s
EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V~137.5VDC; IP65; -20~70C TWAP-5006-2AC-2SA-WV-65	
EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V~137.5VDC; IP65; -20~70C TWAP-5006-2AC-2SA-WV-65	
Load Balancing, VPN, dual 16.8V~137.5VDC; IP65; -20~70C TWAP-5006-2AC-2SA-WV-65	
TWAP-5006-2AC-2SA-WV-65	Ethernet managed s
EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS422 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V~137.5VDC; IP65; -20~70C TWAP-5006-2AC-2SB-WV-65	
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TWAP-5006-2AC-2SB-WV-65	Ethernet managed s
EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V~137.5VDC; IP65; -20~70C TWAP-5006-1AC-WV-54	
Load Balancing, VPN, dual 16.8V~137.5VDC; IP65; -20~70C TWAP-5006-1AC-WV-54	Ethornot monogod
TWAP-5006-1AC-WV-54	Ememei managed s
EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet managed swit dual 16.8V~137.5VDC; IP54; -20~70C TWAP-5006-2AC-WV-54	
dual 16.8V~137.5VDC; IP54; -20~70C TWAP-5006-2AC-WV-54	ah far Land Palansi
TWAP-5006-2AC-WV-54	CITTOI LOAG BAIATICII
EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 6 Gigabit X-coded Ethernet managed swit dual 16.8V~137.5VDC; IP54; -20~70C TWAP-5006-1AC-2S-WV-54	
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TWAP-5006-1AC-2S-WV-54	on for Eugu DalatiCil
EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded Load Balancing, VPN, dual 16.8V~137.5VDC; IP54; -20~70C TWAP-5006-1AC-2SA-WV-54	
Load Balancing, VPN, dual 16.8V~137.5VDC; IP54; -20~70C TWAP-5006-1AC-2SA-WV-54	Ethernet managed (
TWAP-5006-1AC-2SA-WV-54P/N:8652-044	Euromot manageu s
	Ethernet managed (
Load Balancing, VPN, dual 16.8V~137.5VDC; IP54; -20~70C	Linemet manageu s



EN50155 Multifunction VPN Router w/1x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded Ethernet managed switch for Load Balancing, VPN, dual 16.8V~137.5VDC; IP54; -20~70C

■ TWAP-5006-2AC-2S-WV-54......P/N: 8652-045

EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS232 ports + 6 Gigabit X-coded Ethernet managed switch for Load Balancing, VPN, dual 16.8V~137.5VDC; IP54; -20~70C

TWAP-5006-2AC-2SA-WV-54......P/N: 8652-046

 $EN50155 \ Multifunction \ VPN \ Router \ w/2x \ Wi-Fi \ 11ac + 2 \ serial \ RS422 \ ports + 6 \ Gigabit \ X-coded \ Ethernet \ managed \ switch \ for \ Load \ Balancing, \ VPN, \ dual \ 16.8V \ -137.5VDC; \ IP54; \ -20 \ -70C$

■ TWAP-5006-2AC-2SB-WV-54......P/N: 8652-048

EN50155 Multifunction VPN Router w/2x Wi-Fi 11ac + 2 serial RS485 ports + 6 Gigabit X-coded Ethernet managed switch for Load Balancing, VPN, dual 16.8V~137.5VDC; IP54; -20~70C

OPTIONAL ACCESSORIES

Management System

■ InstaAir.....P/N: 9000-121

Cloud Based Fleet Management System for Routers

Wi-Fi Antenna

ANT11000056

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.

www.lantechcom.tw info@lantechcom.tw

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