Router ER7212PC

TP-LINK ER7212PC Omada Gigabit VPN Router with PoE+ Ports and Controller Ability

3 in 1 : combines router functions, outgoing PoE+ connection and centralized network management capabilities of Omada
Powerful hardware: Dual-core processor with 1GB DDR3 memory provides excellent performance for each of the 12 ports
Up to four WAN ports: 2 x Gigabit WAN/LAN SFP ports, 1 x Gigabit WAN RJ45 port, 1 x Gigabit WAN/LAN RJ45 port
PoE support : eight RJ45 LAN ports with PoE+ (802.3af/at) support and a total budget of 110 W
Centralized Management: Easy and convenient device management via the cloud and the Omada app
VPN connection: Supports IPsec, PPTP, L2TP and OpenVPN VPN tunnels
Easy installation: on a table or on a wall

Detailed

Hardware specifications	
Standards and protocols	• IEEE 802.3, IEEE802.3u, IEEE802.3ab, IEEE802.3z, IEEE 802.3x, IEEE 802.1q • TCP/IP, DHCP, ICMP, NAT, PPPoE, NTP, HTTP, HTTPS, DNS, IPSec, PPTP, L2TP, SNMP
Interfaces	• Gigabit WAN/LAN SFP port (2 pcs.) • Gigabit WAN port • Gigabit LAN/WAN port • Gigabit LAN port (8 pcs.)
Data transmission medium	• 10BASE-T: Category 3, 4, or 5 unshielded twisted pair (100 m or less) TIA/EIA-568-compliant 100 ohm shielded twisted pair (100 m or less) • 100BASE-TX: Category 5 or 5e unshielded twisted pair (100 m or less) TIA/EIA-568-compliant 100 ohm shielded twisted pair (100 m or less)

	• 1000BASE-T: Category 5, 5e, or 6 unshielded twisted pair (100 m or less)
Fans	No
Buttons	Reset (reset settings)
Power supply	Adapter 53.5VDC/2.43A
PoE Budget	110W on eight ports
Flash memory	8 Mbit Nor + 4 GB EMMC
DRAM	1GB DDR3
LED indicators	PWR, SYS, CLOUD, PoE Max, SFP 1, SFP 2, WAN (Speed, Link/Act), LAN (Speed, Link/Act)
Dimensions (W x D x H)	226 x 131 x 35 mm
Protection	Surge protection 4 kV
Frame	Steel
Accommodation	On the table or on the wall
Maximum power consumption	• 133.2W with PoE Max • 13.88W without PoE

Performance	
Maximum number of simultaneous sessions	24 980
Number of new sessions per second	1900
NAT (static IP address)	935.5 Mbps / 942.1 Mbps
NAT (DHCP)	940.2 Mbps / 941.7 Mbps
NAT (PPPoE)	913.1 Mbps / 935.2 Mbps
NAT (L2TP)	545 Mbps / 912.7 Mbps
NAT (PPTP)	523 Mbps / 912.8 Mbps
IPsec VPN Throughput (AES256)	168.5 Mbps
IPsec VPN Traffic Throughput	AES256: 168.5 Mbps
OpenVPN	34 Mbps
VPN L2TP Traffic Throughput	• Without encryption: 845.3 Mbps • With encryption: 333.2 Mbps
VPN PPTP Traffic Throughput	• Without encryption: 1012.6 Mbps • With encryption: 401.4 Mbps
66-byte packet transfer rate	154,069 packets per second / 156,977 packets per second
1518-byte packet transfer rate	81,193 packets per second / 81,193 packets per second

Basic functions	
WAN connection type	• Static IP address • Dynamic IP address • PPPoE • PPTP • L2TP
MAC address cloning	Modify WAN MAC Address
DHCP	• DHCP Server/Client • DHCP Address Reservation

	• Multi-IP Interfaces • Multi-net DHCP
IPv6	Yes
VLAN	802.1Q VLAN
IPTV	IGMP v2/v3 Proxy

Advanced Features	
Access Control List	IP/Port/Protocol/Domain Name Filtering
Advanced Routing Settings	• Static Routing • Policy Routing
Bandwidth control	Bandwidth control by IP address/port
Load balancing	• Smart load balancing • Optimized routing for applications • Channel redundancy • Device discovery on the network
NAT	• Multi-Net NAT • Virtual Server • NAT-DMZ • FTP/H.323/SIP/IPsec/PPTP ALG • UPnP
Session limit	Limiting sessions by IP address

VPN	
SSL VPN	-
IPsec VPN	• 20 IPsec VPN tunnels • LAN-to-LAN, client-to-LAN • Negotiation modes: Main, Aggressive • Encryption algorithms: AES-128, AES-192, AES-256 • IKE v1/v2 • Authentication algorithms: SHA1, SHA2 • NAT traversal (NAT-T) • Dead peer detection (DPD) • Perfect forward secrecy (PFS)
PPTP VPN	• PPTP VPN Server • PPTP VPN Client (10) • 16 Tunnels • PPTP with MPPE Encryption
L2TP VPN	• L2TP VPN Server • L2TP VPN Client (10) • 16 Tunnels • L2TP over IPsec
OpenVPN	• OpenVPN Server • OpenVPN Client (10) • 16 OpenVPN Tunnels

AUTHENTICATION	
Web authentication	• No authentication • Simple password • Hotspot (local user, voucher, SMS, RADIUS) • External RADIUS server • External portal server

Control	

Omada App	Yes
Centralized management	• Omada Hardware Controller (OC300) • Omada Hardware Controller (OC200) • Omada Software Controller • Omada Cloud-Based Controller
Cloud access	Yes
Service	Dynamic DNS (Dyndns, No-IP)
Support	• Web management interface • Remote management • Export and import settings • SNMP v1/v2c/v3 • System log
Automatic parameter adjustment	Yes. Requiring the use of Omada Cloud-Based Controller.
Control	• Automatic device discovery • Smart network monitoring • Anomaly alerts • Single provisioning • Scheduled reboot • Captive portal setup • Ability to manage 1 router, 2 switches and 10 EAP access points

Other	
Certification	CE, FCC, RoHS
Delivery set	• Router • Power adapter • Power cable • Quick setup guide
System requirements	Microsoft Windows (98SE, NT, 2000, XP, Vista, 7, 8, 10), macOS, NetWare, UNIX or Linux
Environmental parameters	• Operating temperature: 0...+45 °C • Storage temperature: –40...+70 °C • Operating humidity: 10–90% non-condensing • Storage humidity: 5–90% non-condensing