



Omada Gateway | Datasheet

ER605W

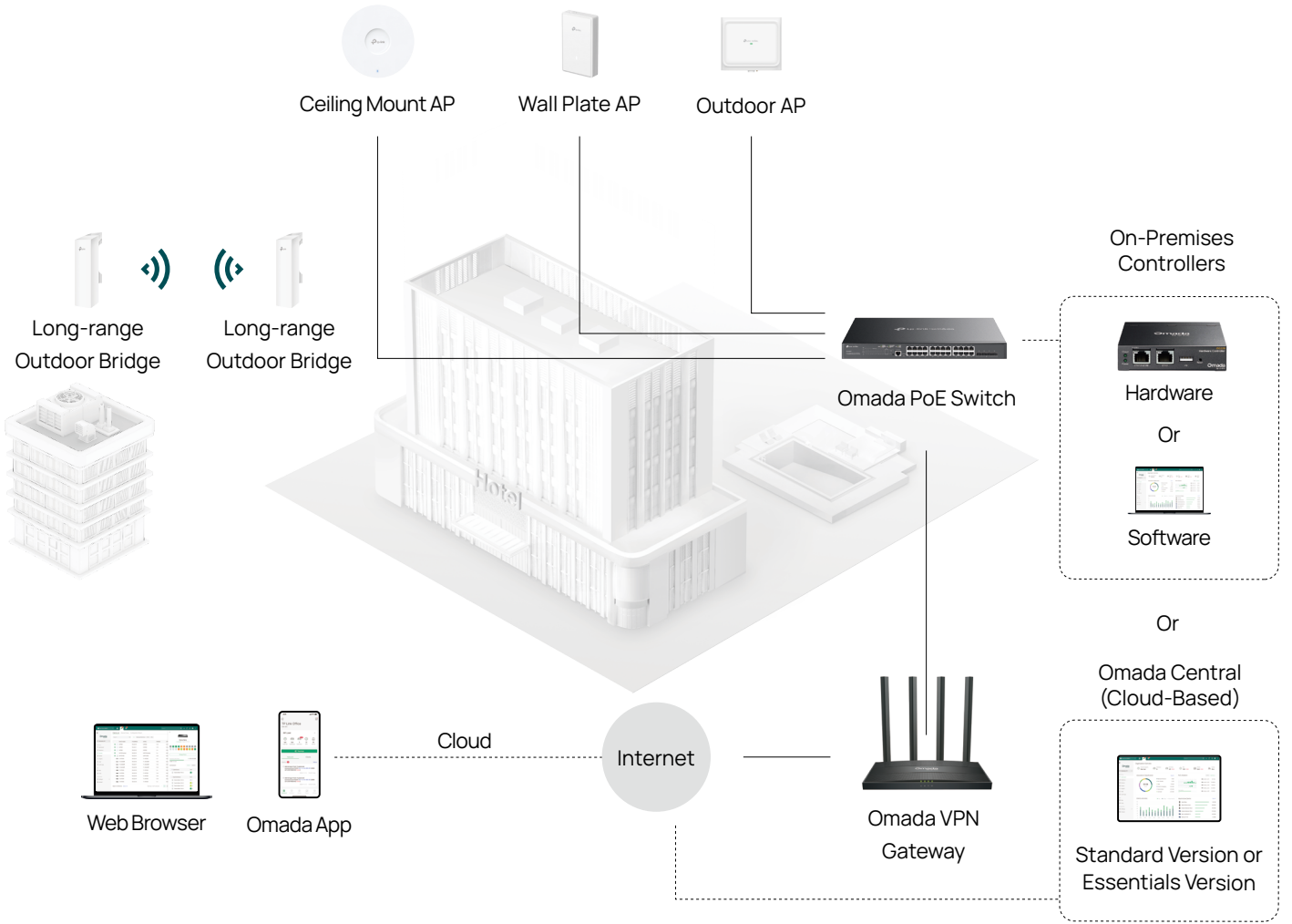
Omada AC1200 Gigabit VPN Gateway



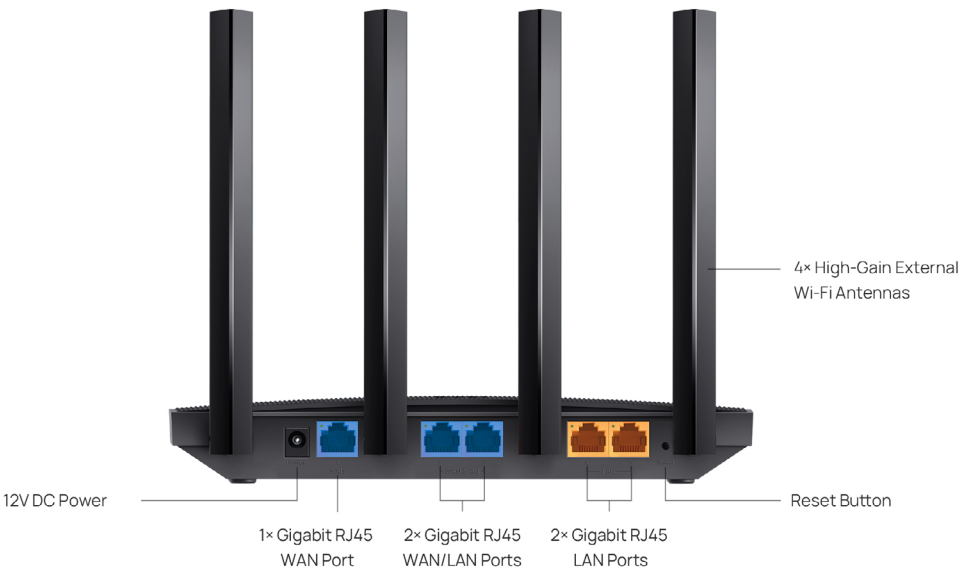
Highlights

- AC1200 Dual-Band WiFi (867 Mbps on 5 G + 300 Mbps on 2.4 G)*
- 5× Gigabit Ethernet Ports Provide High-Speed Connectivity
- 4× High-Gain External Antennas for Boosted Coverage
- Load Balancing on up to 3× WAN Ports
- IPSec/PPTP/L2TP/OpenVPN/WireGuard/GRE VPN
- DoS Defense, IP/MAC/URL Filtering, and More Abundant Security Features
- Centralized Cloud Management via Web and Omada App

Omada Solution



Product Images



Specifications

Model		ER605W
Product Description		Omada AC1200 Gigabit VPN Gateway
Hardware	Standards and Protocols	IEEE 802.3, IEEE802.3u, IEEE802.3ab, IEEE 802.3x, IEEE 802.1q, TCP/IP, DHCP, ICMP, NAT, PPPoE, NTP, HTTP, HTTPS, DNS, PPTP, L2TP, 802.11a/b/g/n/ac
	Interface	1 Gigabit WAN port 2 Gigabit LAN/WAN ports 2 Gigabit LAN ports
	Wi-Fi Speed	2.4 GHz: 300 Mbps 5 GHz: 867 Mbps
	Antennas	2.4 GHz: 2x 5 dBi non-detachable antennas 5 GHz: 2x 5 dBi non-detachable antennas
	Network Media	10BASE-T: UTP category 3, 4, 5 cable (Max 100 m) EIA/TIA-568 100Ω STP (Max 100 m) 100BASE-TX: UTP category 5, 5e cable (Max 100 m) EIA/TIA-568 100Ω STP (Max 100 m) 1000BASE-T: UTP category 5, 5e, 6 cable (Max 100 m)
	Button	Reset button
	Power Supply	12VDC / 1A Power Adapter
	Flash	128MB NAND
	DRAM	256MB DDR3
	LED	Power,SYS,2.4G,5G,WAN (1000/100/10M Link/Act) WAN/LAN (1000/100/10M Link/Act) LAN (1000/100/10M Link/Act)
	Max Power Consumption	EU: 9W US: 10.3W
	Mounting	Desktop/ Wall-mounting
	Dimensions (W x D x H)	8.5 × 4.6 × 1.2 in (215 × 117 × 31 mm)
	MTBF	1296519h@25°C 600369h@40°C
SDN Support	Hardware Controller	Automatic Device Discovery Intelligent Network Monitoring Abnormal Event Warnings
	Software Controller	Unified Configuration Reboot Schedule
	Omada App	Captive Portal Configuration

Model		ER605W
Performance ¹	Concurrent Session	50,000
	New Session/Second	2,028
	Static IP NAT Throughput (Upload / Download)	909.3Mbps/937.5 Mbps
	DHCP NAT Throughput (Upload / Download)	938.3 Mbps /888.2 Mbps
	PPPoE NAT Throughput (Upload / Download)	929.9 Mbps /929.2 Mbps
	L2TP NAT Throughput (Upload / Download)	346.9 Mbps /337.6 Mbps
	PPTP NAT Throughput (Upload / Download)	487.1 Mbps/454.3 Mbps
	66 Byte Packet forwarding rate (Upload / Download)	1,453,489 pps /1,453,489 pps
	1,518 Byte Packet forwarding rate (Upload / Download)	81,275 pps/81,275 pps
	IPSec VPN Throughput	ESP-SHA1-AES256: 175.5 Mbps ESP-SHA256-AES256: 185.9 Mbps ESP-SHA384-AES256: 30.9 Mbps ESP-SHA512-AES256: 30.7 Mbps
	GRE	Unencrypted: 180.1 Mbps Encrypted: 56.9 Mbps
	WireGuard VPN	71.2 Mbps
	OpenVPN	16.8 Mbps
	L2TP VPN Throughput	Unencrypted: 400.3 Mbps Encrypted: 127.5 Mbps
	PPTP VPN Throughput	Unencrypted: 523.6 Mbps Encrypted: 52.7 Mbps
Basic Functions	WAN Connection Type	Static IP Dynamic IP PPPoE (supports MRU Configuration) PPTP L2TP
	DHCP	DHCP Server DHCPv6 PD Server (only in Standalone Mode) DHCP Options Customization DHCP Address Reservation Multi-IP Interfaces Multi-Net DHCP
	MAC Clone	Modify WAN Address
	IPTV	IGMP v2/v3 Proxy, Custom Mode, Bridge Mode
	IPv6	StaticIP / SLAAC / DHCPv6 / PPPoE / 6to4Tunnel / PassThrough / Non-Address mode
	Stateful ACL	√
	VLAN	802.1Q VLAN

1. Rated specifications are based on test results using the specific software version. Device performance may vary as a result of the actual scenario.

Model		ER605W
Basic Functions	mDNS Repeater	√
	Quality of Service	√
	Bridge VLAN	√
Wireless Function	Wireless Encryption	WPA/WPA2 Personal, WPA/WPA2 Enterprise
	Multiple SSIDs	16 in total (8 per radio)
	Enable/Disable Wireless Radio	√
	Enable/Disable SSID Broadcast	√
	Automatic Channel Selection Algorithm	√
	Transmit Power Control	Adjust transmit Power on dBm
	Rate Limit	Based on SSID/Client
	Load Balance	√
	Band Steering	√
	RADIUS Accounting	√
	MAC Authentication	√
	Reboot Schedule	×
	Wireless Schedule	√
	Support Data Rates	802.11ac: 6.5 Mbps to 867 Mbps (MCS0-MCS9, NSS = 1 to 2 HT20/40/80) 802.11n: 6.5 Mbps to 300 Mbps (MCS0~MCS15) 802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11b: 1, 2, 5.5, 11 Mbps 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
Transmission	Load Balance	Intelligent Load Balance Application Optimized Routing Link Backup (Timing, Failover) Online Detection
	NAT	One-to-One NAT Multi-Net NAT Virtual Server Port Triggering ¹ NAT-DMZ FTP/H.323/SIP/IPSec/PPTP ALG UPnP
	Routing	Static Routing Policy Routing RIP OSPF
	Session Limit	IP-based Session Limit
	Bandwidth Control	IP-based Bandwidth Control

1. Port Triggering is supported only in Standalone Mode.

Model		ER605W
VPN	IPSec VPN	6 IPSec VPN Tunnels LAN-to-LAN, Client-to-LAN Main, Aggressive Negotiation Mode DES, 3DES, AES128, AES192, AES256 Encryption Algorithm IPsec Failover IKE v1/v2 MD5, SHA1, SHA-256, SHA2-384 and SHA2-512 Authentication Algorithm NAT Traversal (NAT-T) Dead Peer Detection (DPD) Perfect Forward Secrecy (PFS)
	PPTP VPN	PPTP VPN Server PPTP VPN Client (6) 6 Tunnels PPTP with MPPE Encryption
	L2TP VPN	L2TP VPN Server L2TP VPN Client (6) 6 Tunnels L2TP over IPSec
	GRE	Only in Standalone Mode
	WireGuard VPN	√
	OpenVPN	OpenVPN Server OpenVPN Client (3) 18 OpenVPN Tunnels "Certificate + Account" Mode Full Mode
Security	Attack Defense	TCP/UDP/ICMP Flood Defense Block TCP Scan (Stealth FIN/Xmas/Null) Block Ping from WAN
	Filtering	Web Group Filtering ¹ URL Filtering Web Security ¹
	DNS Proxy	DNSSEC, DoH, and DoT
	ARP Inspection	Sending GARP Packets ARP Scanning ² IP-MAC Binding
	Access Control	Source/Destination IP Based Access Control
Authentication	Web Authentication	No Authentication Simple Password ³ Hotspot (Local User / Voucher ³ / SMS ³ / Radius ³) External Radius Server External Portal Server ³ LDAP
Management	Service	Dynamic DNS (Dyndns, No-IP, Peanuthull, Comexe, DDNS Customization)
	Maintenance	Web Management Interface Remote Management Export & Import Configuration Diagnostics (Ping & Traceroute) ⁴ NTP Synchronize ⁴ Port Mirroring Syslog Support

1. Web Group Filtering and Web Security are supported only in Standalone Mode.
2. ARP Scanning is supported only in Standalone Mode.
3. The following web authentication methods are supported only in Controller Mode: Simple Password, Voucher, SMS, Radius, and External Portal Server.
4. Diagnostics (Ping & Traceroute) and NTP Synchronize are supported only in Standalone Mode.

Model		ER605W
Others	Certification	CE, FCC, RoHS
	Package Contents	ER605W, Power Adapter, Ethernet Cable, Quick Installation Guide
	System Requirements	Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 7/8/8.1/10/11 MAC OS, NetWare, UNIX or Linux
	Environment	Operating Temperature: 0 °C to 40 °C (32 °F to 104 °F) Storage Temperature: -40 °C to 70 °C (-40 °F to 158 °F) Operating Humidity: 10% to 90% non-condensing Storage Humidity: 5% to 90% non-condensing

*Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and coverage are not guaranteed and will vary.

*Some models featured in this guide may be unavailable in your country or region. Visit TP-Link website for local sales information: www.tp-link.com.

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