

Omada Gateway | Datasheet

ER605W

Omada AC1350 Gigabit Wi-Fi Gateway

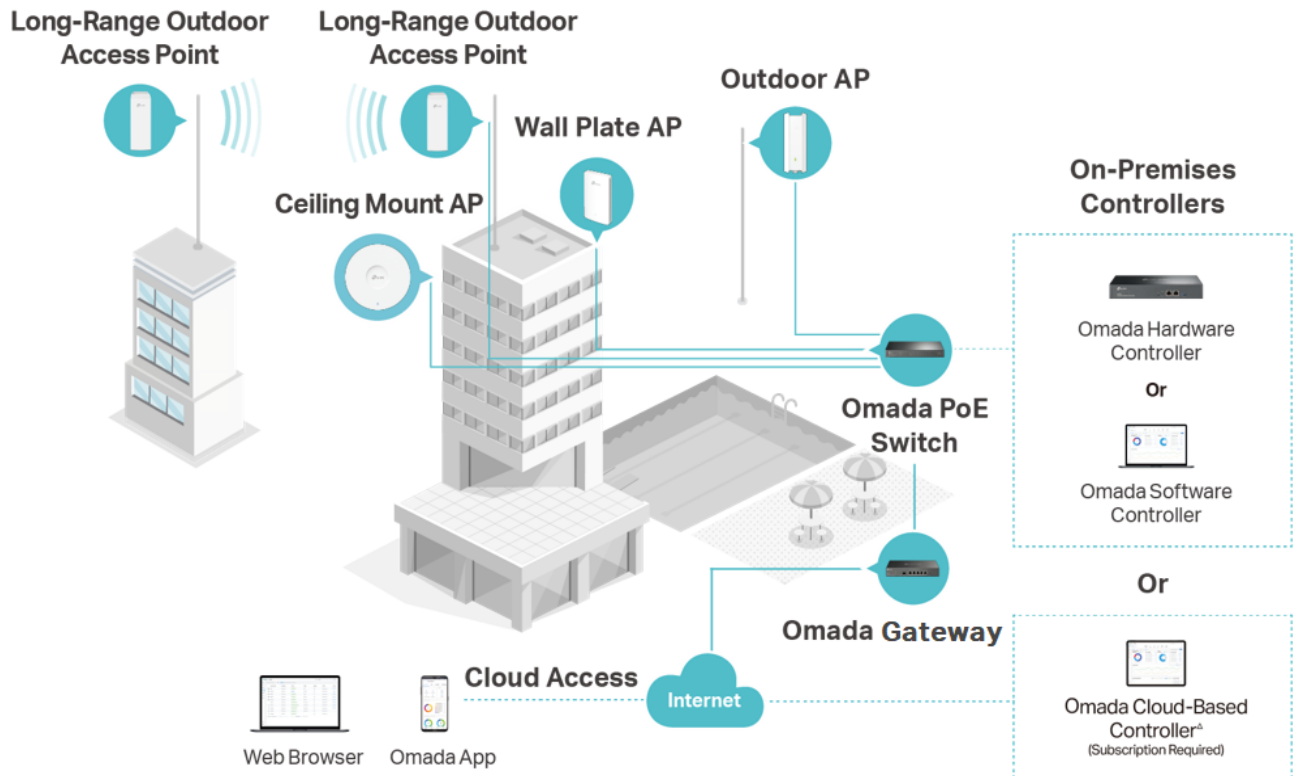


Highlights

- AC1350 Dual-Band WiFi: Up to 1317 Mbps Wi-Fi.*
- 5× Gigabit Ethernet Ports: Provide high-speed wired connectivity.
- Centralized Management: Cloud access and the Omada app for easy management.
- Powerful Traffic Control: Load Balancing on up to 2× WAN ports.
- Boosted Coverage: 4× external antennas extend and concentrate the Wi-Fi signals.
- Abundant Security Features: DoS defense, IP/MAC/URL filtering, and more protect your network and data.

Omada Solution

Omada's Software Defined Networking (SDN) platform integrates network devices, including access points, switches, and gateways, providing 100% centralized cloud management. Omada creates a highly scalable network—all controlled from a single interface.



Hassle-Free Cloud or On-Premises Controllers



Zero-Touch Provisioning (ZTP)*




Multi-Site Cloud Management



Intelligent Monitoring

Specifications

Model		ER605W
Product Picture		
Product Description		Omada AC1350 Gigabit Wi-Fi 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: 450 Mbps 5 GHz: 867 Mbps
	Antennas	2.4 GHz: 2x 5 dBi non-detachable antennas + 1 internal antenna 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	16MB NOR FLASH
	DRAM	128MB DDR2
	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: 10W US: 12W
	Mounting	Desktop/ Wall-mounting
	Dimensions (W x D x H)	8.5 × 4.6 × 1.2 in (215 × 117 × 32 mm)
MTBF	1259859h@25°C 666195h@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	16,384
	New Session/Second	1300
	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)	136.5 Mbps /180.7 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/81,275pps
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
Wireless Function	Wireless Encryption	WPA/WPA2 Personal, WPA/WPA2 Enterprise
	Multiple SSIDs	8 in total (4 per radio)
	Enable/Disable Wireless Radio	√
	Enable/Disable SSID Broadcast	√
	Guest Network	√
	Automatic Channel Selection Algorithm	√
	Transmit Power Control	Adjust transmit Power on dBm
	Seamless Roaming	√
	Beamforming	√
	Rate Limit	Based on SSID/Client
	Load Balance	√
	Airtime Fairness	√
	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 450 Mbps (MCS0~MCS23) 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
	Session Limit	IP-based Session Limit
	Bandwidth Control	IP-based Bandwidth Control

1. Port Triggering is supported only in Standalone Mode.

Model		ER605W
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
	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
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
Others	Certification	CE, FCC, RoHS
	Package Contents	ER605W, Power Adapter, 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

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.

Ordering Information

Host Gateway	
Model	Description
ER605W	Omada AC1350 Gigabit Wi-Fi Gateway

*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.

†Maximum wired signal rates are the physical rates. Actual data throughput is not guaranteed and will vary as a result of network conditions, client limitations, and environmental factors.

*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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