EAP | Datasheet

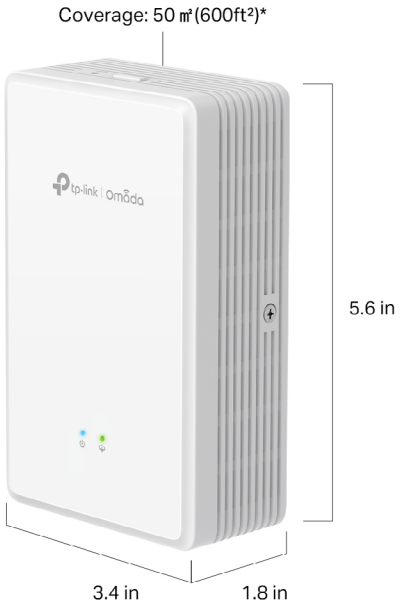
EAP625GP-Wall

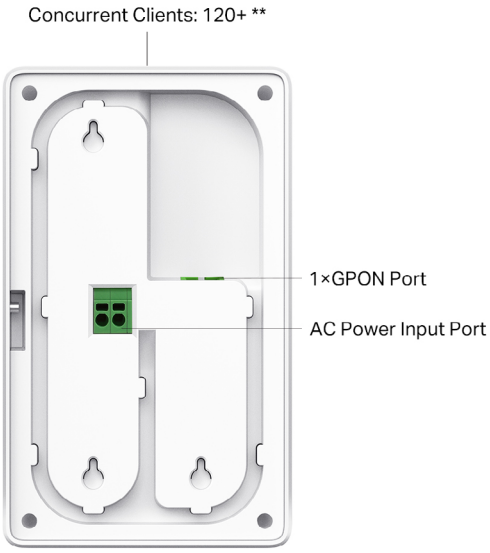
AX1800 Wall Plate Wi-Fi 6 GPON Access Point

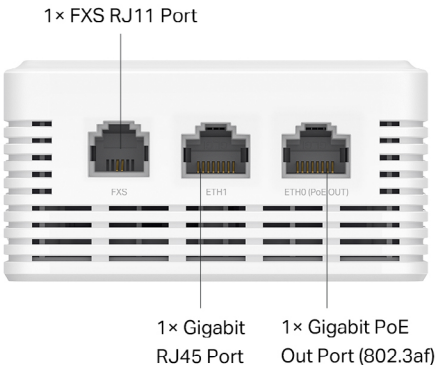
Highlights

- **Seamless 1.8 Gbps WiFi 6 Speeds:** 1201 Mbps on 5 GHz & 574 Mbps on 2.4 GHz*
- **Multiple Ports:** 1× GPON port for high-speed, ultra-range access and 2× Gigabit RJ45 ports (one supporting 802.3af PoE out) for flexible deployment
- **One Fiber for Multiple Services:** Wired, Wireless, Voice, VoIP, Data, and HD Video Services
- **VoIP Calls:** Support multiple VoIP accounts and various call features, exceeding traditional landlines
- **Easy Use:** One-Click Pairing and Automatic Adoption
- **Advanced Functions:** Omada Mesh, Seamless Roaming, Centralized Cloud Management*

Product Pictures



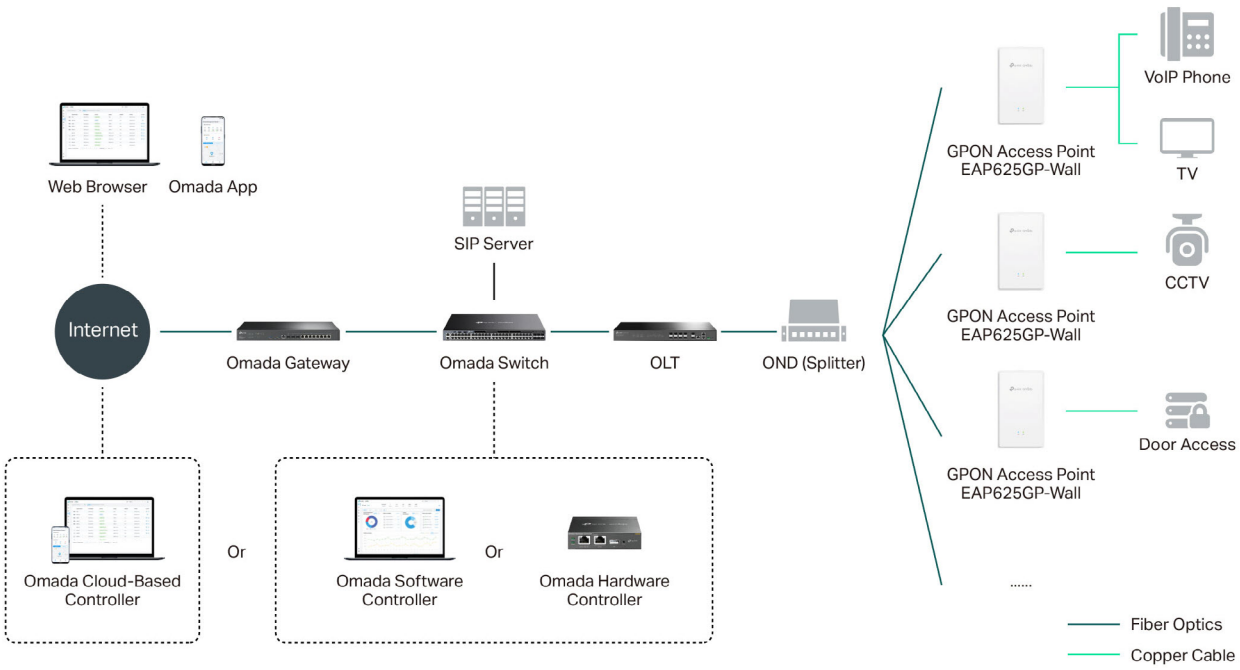




* Coverage is calculated based on laboratory testing. Actual coverage is not guaranteed and will vary as a result of client limitations and environmental factors.
** The actual capacity depends on the wireless environment and client traffic and is generally less than the maximum number of client connections.

Omada Optical Networking Solution

The Omada Optical Networking Solution delivers enterprise-grade gigabit passive optical networking. It seamlessly integrates essential components such as Omada switches, gateways, OLTs (Optical Line Terminals), and ONUs (Optical Network Units)—perfect for PtMP (point-to-multipoint) environments like hotels and MDUs.



Cloud

Omada Centralized Management

Quick, Easy Adoption

Easy Setup

Complete Product Types

Zero-Touch Provisioning

Easy Monitoring

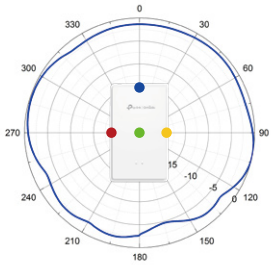
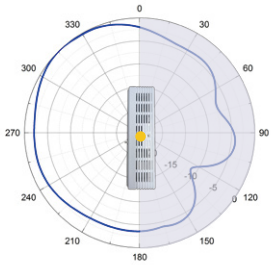
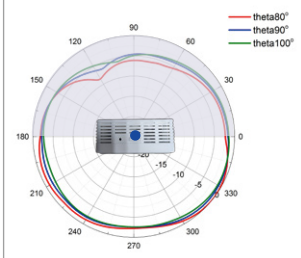
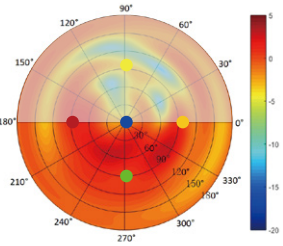
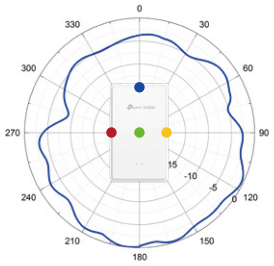
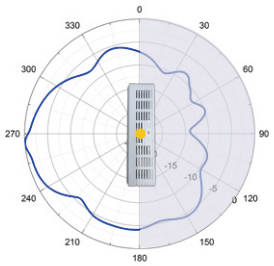
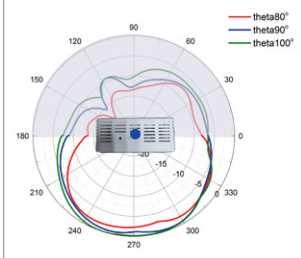
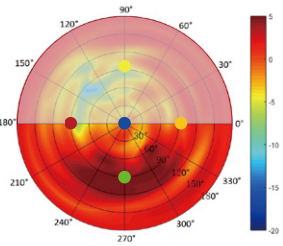
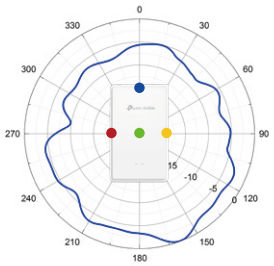
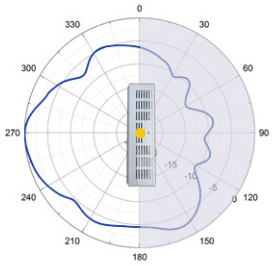
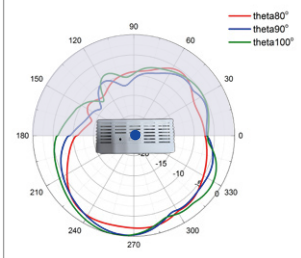
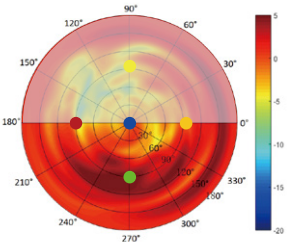
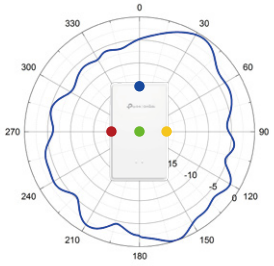
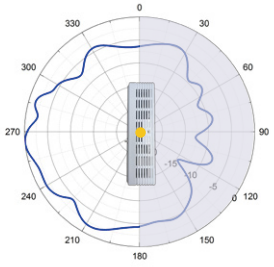
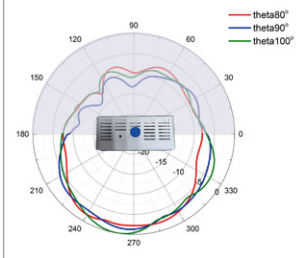
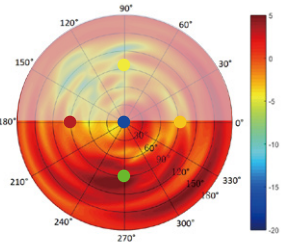
Specifications

Model		EAP625GP-Wall
Name		AX1800 Wall Plate Wi-Fi 6 GPON Access Point
Main Design	Interfaces	1x GPON Port 2 x 1Gbps Ethernet Ports (One supporting 802.3af PoE Out) 1 x FXS Port
	Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax
	Maximum Data Rate	574 Mbps (2.4 GHz) +1201 Mbps (5 GHz)
	Wireless Client Capacity	120+
	Antennas	2.4 GHz: 2x 4 dBi 5 GHz: 2x 6.5 dBi
	Transmit Power	CE: < 20 dBm (2.4 GHz, EIRP); < 23 dBm (5 GHz, band 1&band 2, EIRP); < 24dBm (5 GHz, band 3, EIRP); FCC: < 21 dBm (2.4 GHz); < 21 dBm (5 GHz)
	Reception Sensitivity	2.4 GHz: 11g 6M -95dBm; 11ax HE40 MCS11 -64 dBm 5 GHz: 11a 6M -93dBm; 11ax HE80 MCS11 -57 dBm
GPON Spec	Port Type	SC-APC
	Standards and Protocols	ITU-984.x, G.988, Class B+
	Upstream Data Rate	1.244 Gbps
	Downstream Data Rate	2.488 Gbps
	Wave Length	Tx: 1310 nm, Rx: 1490 nm
	Fiber Type	9/125 um Single mode
	Max. Cable Length	20 km
	Transmit Power	0.5~5dBm
	Receiver Sensitivity	-27 dBm
	Overload Power	- 8 dBm
Centralized Management	Omada Software Controller	•
	Omada Hardware Controller	•
	Omada Cloud-Based Controller	•
	Omada APP	•
Security	Captive Portal Authentication	•
	Access Control	•
	Maximum number of MAC Filter	4000
	Wireless Isolation between Clients	•
	VLAN	•
	Rogue AP Detection	•
	Wireless Encryption	WPA-Personal/Enterprise, WPA2-Personal/Enterprise, WPA3-Personal/Enterprise
	802.1X Support	•

Model		EAP625GP-Wall
Wireless Function	Multiple SSIDs	16 (8 on each band)
	Channel	US: 2G:1,2,……,10,11 5G: 36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132,140,149,153,157,161,165 EU: 2G:1,2,……,12,13 5G: 36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140
	Enable/Disable Wireless Radio	•
	Enable/Disable SSID Broadcast	•
	Guest Network	•
	Automatic Channel Assignment	•
	Transmit Power Control	Adjust transmit Power on dBm
	QoS (WMM)	•
	Seamless Roaming	•
	Mesh	•
	Beamforming	•
	MU-MIMO	2*2 MU-MIMO DL/UL
	MIMO	2×2 (2.4 GHz & 5 GHz) MU-MIMO
	OFDMA	UL/DL OFDMA
	Rate Limit	Based on Client
	Load Balance	•
	Airtime Fairness	•
	Band Steering	•
	RADIUS Accounting	•
	MAC Authentication	•
	Reboot Schedule	•
	Wireless Schedule	•
	Wireless Statistics	•
	Static IP/Dynamic IP	•
Support Data Rates	802.11ax	8 Mbps to 1201 Mbps (MCS0-MCS11, NSS = 1 to 2 HE20/40/80)
	802.11ac	6.5 Mbps to 866 Mbps (MCS0-MCS9, NSS = 1 to 2 VHT20/40/80)
	802.11n	6.5 Mbps to 300 Mbps (MCS0-MCS15, HT20/40)
	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

Model		EAP625GP-Wall
Management	LED ON/OFF Control	•
	Management MAC Access Control	•
	Web-based Management	•
	SNMP	v1, v2c, v3
	SSH	•
	Restore & Backup	•
	Firmware update via Web	•
	NTP	•
	System Log	•
	Email Alerts	•
Physical & Environment	Power Supply	100–240V~ 50/60Hz, 0.5A
	Maximum Power Consumption	30.5w (PoE out full load 15w)
	Reset	•
	Mounting	Wall mouting (Kits included)
Others	Certifications	CE, FCC, RoHS, IC
	Dimensions (W x D x H)	143×86×44.6 mm
	Net Weight	350g
	Enclosure Material / Rack Material	Shell: PC Mounting rack: stainless steel
	Lightning Protection	AC 4KV
	Environment	Operating Temperature: 0 °C–40 °C (32 °F–104 °F); Storage Temperature: -40 °C–70 °C (-40 °F–158 °F); Operating Humidity: 10%–90% non-condensing; Storage Humidity: 5%–90% non-condensing;

Antenna Radiation Patterns

	Elevation-0°	Elevation-90°	Azimuth	Mapped 3D
2.45 GHz				
5.25 GHz				
5.5 GHz				
5.75 GHz				

Disclaimers

* Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput and wireless coverage are not guaranteed and will vary as a result of 1) environmental factors, including building materials, physical objects, and obstacles, 2) network conditions, including local interference, volume and density of traffic, product location, network complexity, and network overhead, and 3) client limitations, including rated performance, location, connection, quality, and client condition.
* Use of WiFi 6 (802.11ax) and its features like MU-MIMO, requires clients to support the corresponding features.
* Seamless Roaming, and Captive Portal require the use of Omada SDN controllers.
* This feature needs to be used with the switch that supports VPN Server. And at the same time, the Omada controller needs to be used with the switch that supports the Cli Template.
* The actual capacity depends on the wireless environment and client traffic and is generally less than the maximum number of client connections.
* Coverage value is calculated based on laboratory testing. Actual coverage is not guaranteed and will vary as a result of 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: **https://www.tp-link.com**. Specifications are subject to change without notice.