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TP-Link Omada EAP650GP-Desktop

Wi-Fi 6 access point with GPON, FXS voice, and Gigabit Ethernet ports

The **EAP650GP-Desktop** integrates **GPON connectivity,** dual-band Wi-Fi 6 access, and multiple wired interfaces into a single unit. The device includes one GPON port, one FXS port, and four Gigabit Ethernet ports, two of which support 802.3af PoE output. Compatible with the Omada platform for centralized administration and access from the cloud via an Omada controller.

Hardware features

Interface	1 × GPON port 1 x FXS port 4 x Gigabit Ethernet ports (2 compatible with 802.3af PoE output)
GPON interface	Port type: SC-APC Standards and protocols: ITU-984.x, G.988, Class B+ Data rate: 2.488 Gbps (download) / 1.244 Gbps (upload) Fiber: single-mode 9/125 µm Maximum cable length: 20 km
Buttons	Reset / LED
Power supply	53.5 V / 0.81 A DC
Power consumption	20 W. Note: does not include the power delivered by PoE Out.
Weight	511 g
Dimensions	175 × 140 × 33mm (6.9 × 5.5 × 1.3 in)
Antennas	Omnidirectional internals 2.4 GHz: 2 × 4.5 dBi 5 GHz: 3 × 5 dBi
Mounting	Desk/wall (kits included)

Management

Omada App	Yeah
Restoration and backup	Yeah
NTP	Yeah
Centralized management	Omada Hardware Controller Omada Software Controller Omada Central (cloud-based) Omada App
Cloud access	Yes. It requires the use of an Omada controller.
Email alerts	Yeah
LED ON/OFF control	Yeah
MAC access control	Yeah
SNMP	v1, v2c, v3
System log	System Log
SSH	Yeah
Web management	Yeah
Contactless provisioning	Yeah

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Wireless features

Concurrent customers	100+*
Wireless standards	IEEE 802.11 a/b/g/n/ac/ax
Frequency	2.4 GHz and 5 GHz
Signal rate	5 GHz: up to 2402 Mbps† 2.4 GHz: up to 574 Mbps
Wireless features	16 SSIDs (8 per band) Enable/disable SSID broadcasting and wireless radio Guest Network Automatic channel assignment Transmission power control (dBm) QoS (WMM) Continuous roaming§ Mesh Beamforming 2×2 MU-MIMO (2.4G and 5G)‡ UL/DL OFDMA‡ Per-client speed limit, Band steering, Load balancing, Airtime fairness, RADIUS accounting, MAC authentication, Scheduled restart, Wireless scheduling and statistics, Static IP / Dynamic IP
Wireless security	Captive portal authentication; Access control; Up to 4000 MAC filters; Wireless isolation between clients; VLANs; Detection of unauthorized APs; 802.1X WPA/WPA2/WPA3 Personal and Enterprise
Transmission power	CE: <20 dBm (2.4 GHz, EIRP); <23 dBm (5 GHz, bands 1 and 2, EIRP); <29 dBm (5 GHz, band 3, EIRP) FCC: <26 dBm (2.4 GHz); <27 dBm (5 GHz)

Others

Certifications	CE, FCC
Package contents	EAP650GP-Desktop Desktop/Wall Mounting Kit Installation Guide
Environmental factors	Operating temperature: 0 to 40 °C Storage temperature: -40 to 70 °C Operating humidity: 10-90% RH non-condensing Storage humidity: 5-90% RH non-condensing

* † ‡ § The symbols are retained because they appear in the shared source information. The provided file does not include the development of those notes.