EAP | Datasheet

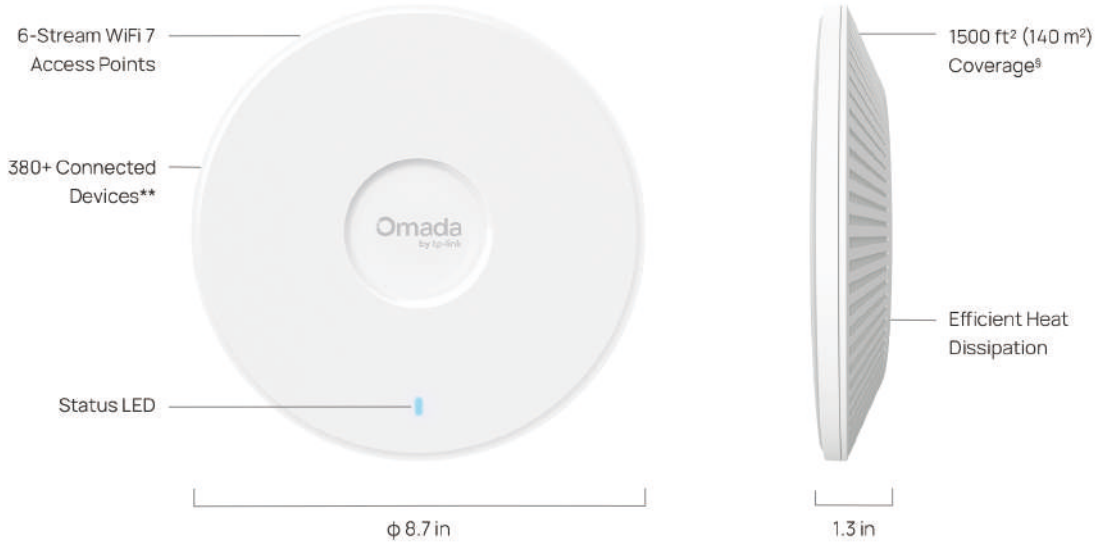
EAP770

US: BE11000 Ceiling Mount Wi-Fi 7 Access Point
EU: BE9300 Ceiling Mount Wi-Fi 7 Access Point

Highlights

- BE11000 Tri-Band Wi-Fi 7 for US and BE9300 Tri-Band Wi-Fi 7 for EU. Buffering will no longer be a problem.
- Clear 6 GHz Band: Brings cleaner and wider band resources to your Wi-Fi.
- 320 MHz Bandwidth: Up to 320 MHz bandwidth enables many more simultaneous transmissions at the fastest possible speeds.
- Low Latency and Interference: Multi-Link Operation, and Multi-RUs ensure high performance of your network.
- Advanced Functions: Supports centralized management, mesh, and seamless roaming.

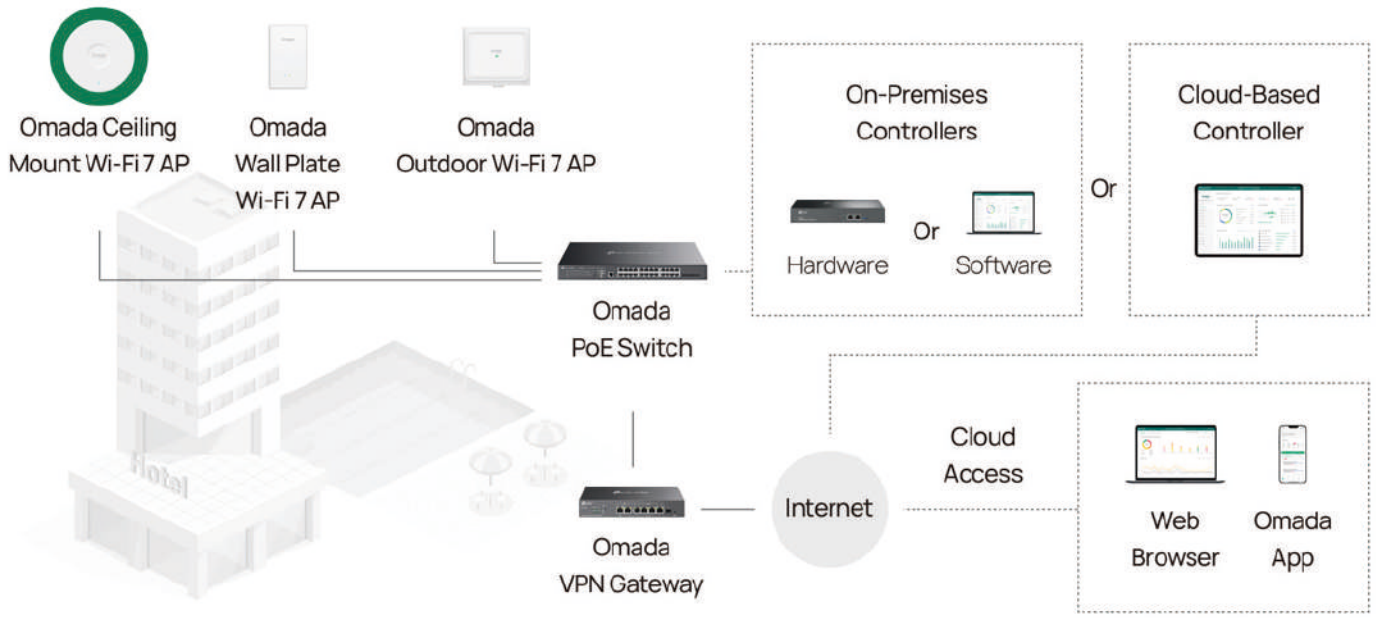
Product Pictures



**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.

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.



Specifications

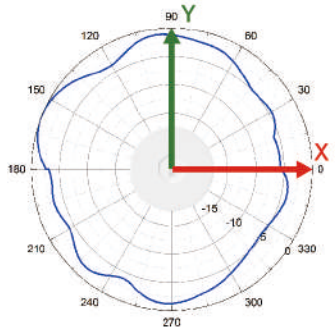
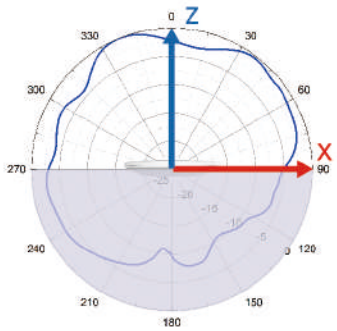
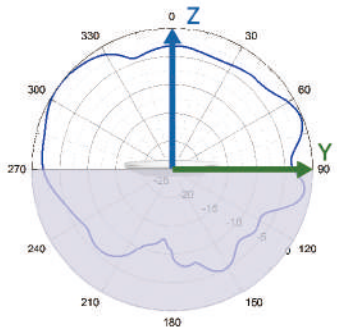
Model		EAP770
Name		US: BE11000 Ceiling Mount Wi-Fi 7 Access Point EU: BE9300 Ceiling Mount Wi-Fi 7 Access Point
Main Design	LAN Interfaces	1x 2.5Gbps Ethernet Port
	Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax/be
	Maximum Data Rate	US: 688 Mbps (2.4 GHz) + 4324 Mbps (5 GHz) + 5765 Mbps (6 GHz) EU: 688 Mbps (2.4 GHz) + 2882 Mbps (5 GHz) + 5765 Mbps (6 GHz)
	Wireless Client Capacity	2 GHz: 128, 5 GHz: 128, 6 GHz: 128
	Antennas	2.4GHz: 2 x 4dBi; 5GHz: 2 x 5dBi; 6GHz: 2 x 5dBi
	Bluetooth	1 × 4.0 dBi, Bluetooth 5.2
	Transmit Power	CE: < 20 dBm (2.4 GHz, EIRP); < 23 dBm (5 GHz, band 1&band 2, EIRP); < 28 dBm (5 GHz, band 3, EIRP); <23dBm (6 GHz, EIRP) FCC:< 25 dBm (2.4 GHz); < 25 dBm (5 GHz); < 23 dBm (6 GHz)
	Reception Sensitivity	2.4G: 11ax HE20 MCS0:-96dBm; 11ax HE20 MCS11:-66.5dBm 11ax HE40 MCS0:-93dBm; 11ax HE20 MCS11:-64dBm 5G: 11be EHT20MCS0:-94dBm; 11be EHT20MCS13:-63dBm; 11be EHT40MCS0:-90.5dBm; 11be EHT40MCS13:-60dBm; 11be EHT80MCS0:-88dBm; 11be EHT80MCS13:-57.5dBm; 11be EHT160MCS0:-85dBm; 11be EHT160MCS13:-55.5dBm 6G: 11be EHT20MCS0:-93dBm; 11be EHT20MCS13:-63dBm 11be EHT40MCS0:-90dBm; 11be EHT40MCS13:-60dBm 11be EHT80MCS0:-87.5dBm; 11be EHT80MCS13:-57.5dBm 11be EHT160MCS0:-84dBm; 11be EHT160MCS13:-55dBm 11be EHT320MCS0:-81.5dBm; 11be EHT320MCS13:-52.5dBm
Centralized Management	Omada Software Controller	•
	Omada Hardware 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, OWE

Wireless Function	Multiple SSIDs	24 (8 on each band)
	Channel	EU: 2G: 1~13; 5G: 36~140; 6G: 33~93 US: 2G:1~11; 5G: 36~165; 6G: 33~233
	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 DL/UL MU-MIMO
	OFDMA	DL/UL OFDMA
	Rate Limit	Based on SSID/Client
	Load Balance	•
	Airtime Fairness	•
	Band Steering	•
	RADIUS Accounting	•
	MAC Authentication	•
	Reboot Schedule	•
	Wireless Schedule	•
	Wireless Statistics	•
	Static IP/Dynamic IP	•
Support Data Rates	802.11be	2G Band: 8Mbps to 688Mbps(MCS0-MCS13,NSS=1 to 2 BE20/40) 5G Band: EU: 8Mbps to 2882Mbps(MCS0—MCS13,NSS=1 to 2 BE20/40/80/160) US: 8Mbps to 4324Mbps(MCS0—MCS13,NSS=1 to 2 BE20/40/80/160/240) 6G Band: 8Mbps to 5765Mbps(MCS0—MCS13,NSS=1 to 2 BE20/40/80/160/320)
	802.11ax	2G Band: 8Mbps to 574Mbps(MCS0—MCS11,NSS=1 to 2 HE20/40) 5G Band: 8Mbps to 2402Mbps(MCS0—MCS11, NSS=1 to 2 HE20/40/80/160) 6G Band: 8Mbps to 2402Mbps(MCS0—MCS11, NSS=1 to 2 HE20/40/80/160)
	802.11ac	6.5Mbps to 2166.7Mbps(MCS0—MCS11,NSS=1 to 2 VHT20/40/80/160)
	802.11n	6.5Mbps to 300Mbps(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

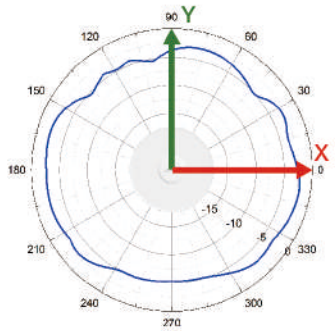
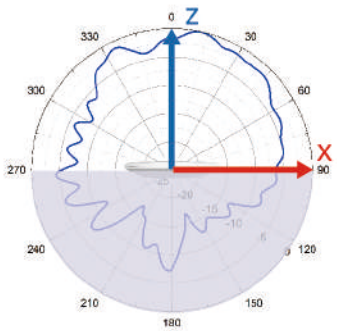
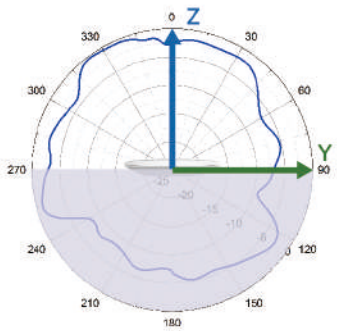
Management	LED ON/OFF Control	•
	Management MAC Access Control	•
	Web-based Management	•
	SNMP	v1, v2c, v3
	SSH	•
	Restore & Backup	•
	Firmware update via Web	•
	NTP	•
	System Log	•
	Email Alerts	•
Physical & Environment	Power Supply	802.3at PoE or 12V/2.5A DC
	Maximum Power Consumption	EU: 24.05 W (For PoE); 20.92 W (For DC); US: 25.4 W (For PoE); 21.8 W (For DC);
	Reset	•
	Mounting	Ceiling / Wall / Junction box mouting (Kits included)
Others	Certifications	CE, FCC, RoHS, IC
	Dimensions (W x D x H)	8.7 x 8.7 x 1.3 in (220 x 220 x 32.5 mm)
	Net Weight	730g
	Enclosure Material / Rack Material	Top cover: PC Bottom shell: aluminum alloy Mounting rack: stainless steel
	Lightning Protection	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

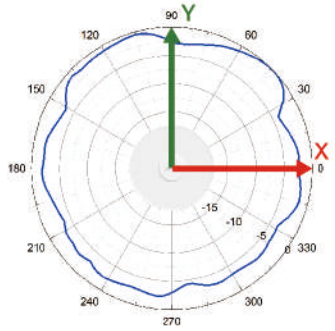
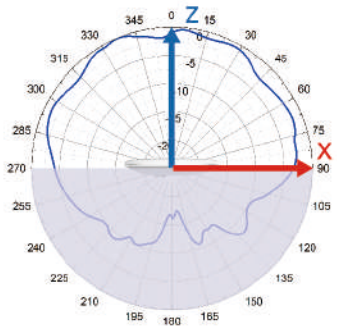
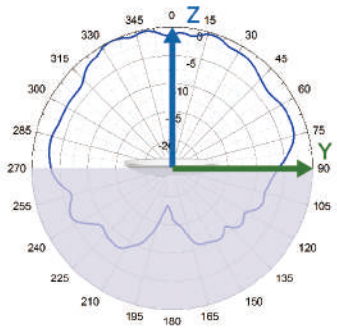
2.4 GHz

XY Plane	XZ Plane	YZ Plane
		

5 GHz

XY Plane	XZ Plane	YZ Plane
		

6 GHz

XY Plane	XZ Plane	YZ Plane
		

Disclaimers

* Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. The 320 MHz bandwidth is only available on the 6 GHz band. Simultaneously, the 320 MHz bandwidth on the 6 GHz band and 160 MHz bandwidth on the 5 GHz band may be unavailable in some regions/countries due to regulatory restrictions. Double channel width and speed refer to 320 MHz compared to 160 MHz for WiFi 6 routers. Actual wireless data throughput, wireless coverage, and connected devices are not guaranteed and will vary as a result of internet service provider factors, network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location.

* Use of Wi-Fi 7 (802.11be), Wi-Fi 6 (802.11ax), and features including Multi-Link Operation (MLO), 320 MHz Bandwidth, 6 GHz, 4K-QAM, Multi-RUs, OFDMA, MU-MIMO and BSS Color requires clients to also support the corresponding features.

* Zero-Touch Provisioning and Auto Channel Selection and Power Adjustment require the use of Omada Cloud-Based Controller. Go to https://www.omadanetworks.com//en/omada-cloud-based-controller/product-list/ to confirm which models are compatible with Omada Cloud-Based Controller.

* 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.

* Omada Mesh, AI Roaming, Captive Portal, and Cloud Access require the use of an Omada SDN controller. Please refer to the User Guides of Omada SDN controllers for configuration methods.

Some models featured in this guide may be unavailable in your country or region. Visit TP-Link website for local sales information: https://www.omadanetworks.com. Specifications are subject to change without notice.
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