

# EAP Product Features

## Easy-Mount Design

The Ceiling Mount EAP's elegant appearance and easy-mount design promote fast installation on any wall or ceiling surface, and allow it to blend in seamlessly with most interior decorating styles. The slimline, inconspicuous Wall Plate EAP can be easily installed into any standard EU/US wall junction box or 86 mm wall junction box.

## PoE Power Supply\*

With IEEE 802.3bt PoE, you can use Ethernet cables to transfer both electrical power and network data, making deployment more flexible and removing the need to install additional power cabling.

## Business-Class Hardware Design

Enterprise-class chipsets offer outstanding performance and support longer running time, higher client capacity and greater range. Dedicated high-power amplifiers, specialized antennas and professionally designed RF shields ensure excellent wireless performance.

## Seamless Roaming\*

802.11k and 802.11v seamless roaming provide seamless switching to the access point with optimal signal when moving between APs.

## Mesh\*

Omada Mesh technology enables wireless connectivity between access points for extended range, making wireless deployments more flexible and convenient.

## Increased Efficiency with OFDMA\*

The Wi-Fi 6 and above standards use OFDMA for more efficient channel use and reduced latency. Imagine your WiFi connection as a series of delivery trucks delivering data packets to your devices. With 802.11ac Wi-Fi, each delivery truck could only deliver one parcel to one device at a time. But with OFDMA, each truck can deliver multiple parcels to multiple devices simultaneously. This vast improvement in efficiency works for both uploads and downloads.

## Advanced RF Management

MU-MIMO, Airtime Fairness, Beamforming, and Band Steering Technologies guarantee optimal RF performance for business-level applications.

## Easy Centralized Management

Configure and monitor hundreds of Omada EAPs with ease using the Omada controller.

\* PoE support varies by model. For detailed information, refer to the specifications.


\* Only certain devices support Seamless Roaming. For detailed information, refer to the specifications.

\* Only certain devices support Mesh. For detailed information, refer to the specifications.

\* Only 802.11ax and 802.11be devices support OFDMA.

# EAP Product List

## Ceiling Mount Wi-Fi 7 AP

Picture	
Model	EAP783
Product	US: BE22000 Ceiling Mount Wi-Fi 7 Access Point EU: BE19000 Ceiling Mount Wi-Fi 7 Access Point
Speed	2.4 GHz: 1376 Mbps 5 GHz: 8640 Mbps (US)/5760 Mbps (EU) 6 GHz: 11520 Mbps
Ethernet Port	2x 10Gbps Ethernet Ports (20G Aggregation Speed)
Power Supply	802.3bt PoE or 12V/4.5A DC
Internal Antennas	2.4 GHz: 4 x 4 dBi, 5 GHz: 4 x 5.5 dBi, 6 GHz: 4 x 5 dBi

# Specifications

## Ceiling Mount Wi-Fi 7 AP

Model		EAP783
Name		US: BE22000 Ceiling Mount Wi-Fi 7 Access Point EU: BE19000 Ceiling Mount Wi-Fi 7 Access Point
Main Design	LAN Interfaces	2x 10Gbps Ethernet Ports (20G Aggregation Speed)
	Wi-Fi Standards	IEEE 802.11 a/b/g/n/ac/ax/be
	Maximum Data Rate	<b>US:</b> 1376 Mbps (2.4 GHz)+8640 Mbps (5 GHz)+11520 Mbps (6 GHz) <b>EU:</b> 1376 Mbps (2.4 GHz)+5760 Mbps (5 GHz)+11520 Mbps (6 GHz)
	Wireless Client Capacity	640
	Antennas	2.4 GHz: 4 x 4 dBi, 5 GHz: 4 x 5.5 dBi, 6 GHz: 4 x 5 dBi
	Bluetooth	Supported
	Transmit Power	<b>CE:</b> <20 dBm (2.4 GHz, EIRP); <23 dBm (5 GHz band 1&band 2, EIRP); <30 dBm (5 GHz band 3, EIRP); <23 dBm (6 GHz EIRP) <b>FCC:</b> <28 dBm (2.4 GHz); <28 dBm (5G band 1&band 4); <24 dBm (5G band 2&band 3); <28 dBm (6 GHz)
Reception Sensitivity	2.4GHz: 11ax HE20 MCS0:-95dBm; 11ax HE20 MCS11:-66dBm 11ax HE40 MCS0:-93dBm; 11ax HE40 MCS11:-64dBm 5GHz: 11be EHT20 MCS0:-95dBm; 11be EHT20 MCS11:-65dBm 11be EHT40 MCS0:-92dBm; 11be EHT40 MCS11:-63dBm 11be EHT80 MCS0:-89dBm; 11be EHT80 MCS11:-60dBm 11be EHT160 MCS0:-86dBm; 11be EHT160 MCS11:-59dBm 11be EHT240 MCS0:-84dBm; 11be EHT240 MCS11:-57dBm 6GHz: 11be EHT20 MCS0:-95dBm; 11be EHT20 MCS11:-64dBm 11be EHT40 MCS0:-92dBm; 11be EHT40 MCS11:-63dBm 11be EHT80 MCS0:-89dBm; 11be EHT80 MCS11:-60dBm 11be EHT160 MCS0:-86dBm; 11be EHT160 MCS11:-58dBm 11be EHT320 MCS0:-83dBm; 11be EHT320 MCS11:-55dBm	
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

# Ceiling Mount Wi-Fi 7 AP

Model		EAP783
Wireless Function	Multiple SSIDs	24 (8 on each band)
	Channel	<p><b>US:</b></p> <p>2G:1 - 11</p> <p>5G: 36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140,149,153,157,161,165</p> <p>6G: 33,37,41,45,49,53,57,61,65,69,73,77,81,85,89,93,97,101,105,109,113,117,121,125,129,133,137,141,145,149,153,157,161,165,169,173,177,181,185,189,193,197,201,205,209,213,217,221,225,229,233</p> <p><b>EU:</b></p> <p>2G:1 - 13</p> <p>5G: 36,40,44,48,52,56,60,64,100,104,108,112,116,120,124,128,132,136,140</p> <p>6G: 33,37,41,45,49,53,57,61,65,69,73,77,81,85,89,93</p>
	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	4x4 MU-MIMO DL/UL
	OFDMA	UL/DL 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	8.6Mbps to 11520 Mbps (MCS0-MCS13,NSS=1-4 ETH20/40/80/160/240/320)
	802.11ax	8.6Mbps to 4804 Mbps (MCS0-MCS11,NSS=1-4 HE20/40/80/160)
	802.11ac	6.5Mbps to 4334 Mbps (MCS0-MCS11,NSS=1-4 VHT20/40/80/160)
	802.11n	6.5Mbps to 600 Mbps (MCS0-MCS7,NSS=1-4 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

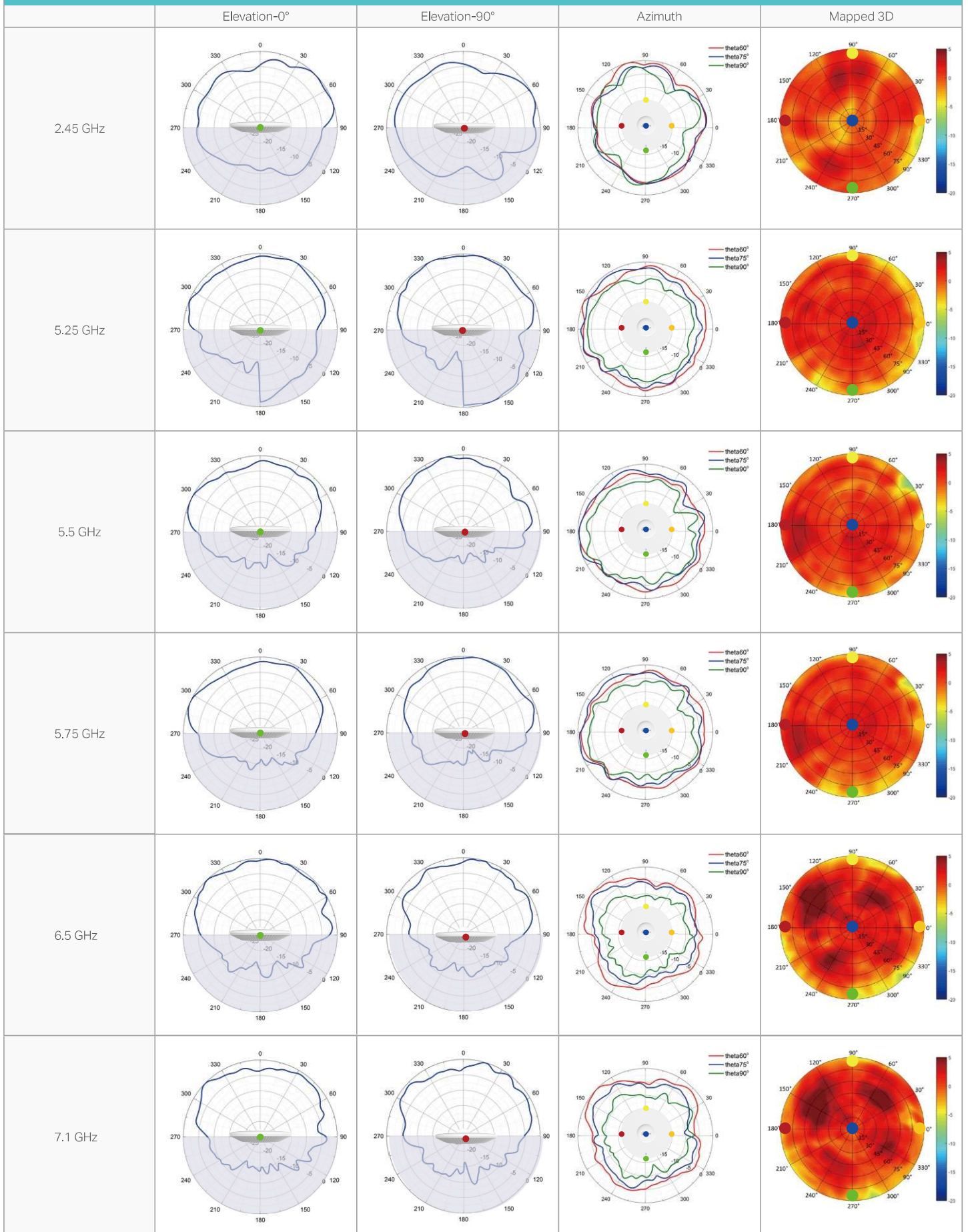
## Ceiling Mount Wi-Fi 7 AP

Model		EAP783
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	802.3bt PoE or 12W/4.5A DC
	Maximum Power Consumption	34W (for DC), 39W(for PoE)
	Reset	•
	Mounting	Ceiling / Wall mouting (Kits included)
Others	Certifications	CE, FCC, RoHS, IC
	Dimensions (W x D x H)	280 x 280 x 46.5 mm
	Net Weight	1384.6g
	Enclosure Material / Rack Material	Top cover: PC Bottom shell: aluminum alloy Mounting rack: stainless steel
	Lightning Protection	Air discharge: ±8kV Contact discharge: ±4kV Common mode: 10/700: ±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

Ceiling Mount AP

EAP783



# Disclaimers

## Wireless Speed and Range Disclaimer

Maximum wireless transmission rates are the physical rates derived from IEEE Standard 802.11 specifications. Range and coverage specifications were defined according to test results under normal usage conditions. Actual wireless transmission rate 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.

## Wireless Client Capacity Disclaimer

Wireless client capacity specifications were defined according to test results under normal usage conditions. Actual wireless client capacity is 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.

## Ethernet Port Limitation Disclaimer

Actual network speed may be limited by the rate of the product's Ethernet WAN or LAN port, the rate supported by the network cable, Internet service provider factors and other environmental conditions.

## MU-MIMO Disclaimer

(Only for certain devices)

MU-MIMO capability requires client devices that also support MU-MIMO.

## Seamless Roaming Disclaimer

(Only for certain devices)

Seamless roaming requires both the access point and client devices to support 802.11k and 802.11v protocols.

## Lightning and Electro-Static Discharge Protection Disclaimer

(Only for outdoor devices)

Protection against lightning and electro-static discharge may be achieved through proper product setup, grounding and cable shielding. Refer to the instruction manual and consult an IT professional to assist with setting up this product.

## PoE Disclaimer

PoE budget calculations are based on laboratory testing. Actual PoE power budget 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: [www.tp-link.com](http://www.tp-link.com). Specifications are subject to change without notice.

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