

Omâda Business Cloud SDN Solution

Omada EAP - Business Wi-Fi Series





EAP265 HD EAP245 EAP225 / EAP223 EAP115 / EAP110

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 802.3af/at/bt PoE or Passive 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.

P tp-link

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 802.11n/ac AP

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Picture						
Model	EAP265 HD	EAP245	EAP225	EAP223	EAP115	EAP110
Product	AC1750 Wireless MU- MIMO Gigabit Ceiling Mount Access Point	AC1750 Wireless MU-MIMO Gigabit Ceiling Mount Access Point	AC1350 Wireless MU-MIMO Gigabit Ceiling Mount Access Point	AC1350 Wireless MU-MIMO Gigabit Ceiling Mount Access Point	300Mbps Wireless N Ceiling Mount Access Point	300Mbps Wireless N Ceiling Mount Access Point
Speed	2.4 GHz: 450Mbps 5 GHz: 1300Mbps	2.4 GHz: 450Mbps 5 GHz: 1300Mbps	2.4 GHz: 450Mbps 5 GHz: 867Mbps	2.4 GHz: 450Mbps 5 GHz: 867Mbps	2.4 GHz: 300Mbps	2.4 GHz: 300Mbps
Ethernet Port	2x Gigabit Ethernet Port	2x Gigabit Ethernet Port	1x Gigabit Ethernet Port	1x Gigabit Ethernet Port	1x 10/100Mbps Ethernet Port	1x 10/100Mbps Ethernet Port
Power Supply	802.3af/at PoE / 48 V Passive PoE	V4: 802.3at PoE / 48 V Passive PoE V3: 802.3af/at PoE / 48 V Passive PoE	V5: 802.3af/at PoE/48 V Passive PoE V4: 802.3af/at PoE /24V Passive PoE	V2: 802.3af/at PoE /24V Passive PoE PoE Adapter Is Not Included V1: 802.3af/at PoE/48 V Passive PoE PoE Adapter Is Not Included	802.3af/at PoE / External 9 V/0.6 A DC power supply	24V Passive PoE
Internal Antennas	2.4 GHz: 3x 3.5 dBi 5 GHz: 3x 4 dBi	2.4 GHz: 3x 3.5 dBi 5 GHz: 3x 4 dBi	2.4 GHz: 3x 4 dBi 5 GHz: 2x 5 dBi	2.4 GHz: 3x 4 dBi 5 GHz: 2x 5 dBi	2x 4 dBi	2x 4 dBi

Specifications

Ceiling Mount 802.11n/ac AP									
Model		EAP265 HD	EAP245	EAP225	EAP223	EAP115	EAP110		
Name		AC1750 Wireless MU- MIMO Gigabit Ceiling Mount Access Point	AC1750 Wireless MU- MIMO Gigabit Ceiling Mount Access Point	AC1350 Wireless MU- MIMO Gigabit Ceiling Mount Access Point	AC1350 Wireless MU- MIMO Gigabit Ceiling Mount Access Point	300 Mbps Wireless N Access Point	300 Mbps Wireless N Access Point		
	LAN Interfaces	2x Gigabit Etherne	et Port	1x Gigabit Etherne	et Port	1x 10/100 Mbps	Ethernet Port		
	Wi-Fi Standards	IEEE 802.11 a/b/g	/n/ac			IEEE 802.11 a/b/g	j/n		
	Maximum Data Rate			450 Mbps (2.4 GHz) + 876 Mbps (5 GHz)		300 Mbps (2.4 Gł	Hz)		
	Wireless Client Capacity	500+	220+	220+	220+	100+			
	Antennas	2.4G: 3x 3.5 dBi 5GHz: 3x 4 dBi	2.4 GHz: 3x 3.5 dBi, 5 GHz: 3x 4 dBi	2.4 GHz: 3x 4 dBi, 5 GHz: 2x 5 dBi	2.4 GHz: 3x 4 dBi, 5 GHz: 2x 5 dBi	2x 4 dBi			
Main Design	Transmit Power	CE: < 20 dBm (2.4 GHz, EIRP); < 28 dBm (5 GHz, EIRP) FCC: < 24 dBm (2.4 GHz); < 24 dBm (5 GHz)	CE: < 20 dBm (2.4 GHz, EIRP); < 28 dBm (5 GHz, EIRP) FCC: < 24 dBm (2.4 GHz); < 24 dBm (5 GHz)	CE: < 20 dBm (2.4 GHz, EIRP); < 27 dBm (5 GHz, EIRP) FCC: < 24 dBm (2.4 GHz); < 22 dBm (5 GHz)	CE: < 20 dBm (2.4 GHz, EIRP); < 23 dBm (5 GHz, band 1&band 2, EIRP); < 27 dBm (5 GHz, band 3, EIRP) FCC: < 24 dBm (2.4 GHz); < 22 dBm (5 GHz)	CE: < 19 dBm (EIRP), FCC: < 21 d			
	Omada Software Controller	•							
Centralized Management	Omada Hardware Controller	•							
	Omada APP	•							
	Captive Portal Authentication	•							
	Access Control	•							
Security	Maximum number of MAC Filter	4000							
	Wireless Isolation between Clients	•							
	VLAN	•							
	Rogue AP Detection	•							
	Wireless Encryption	WPA-Personal/En	terprise, WPA2-Per	sonal/Enterprise					
	802.1X Support	•							

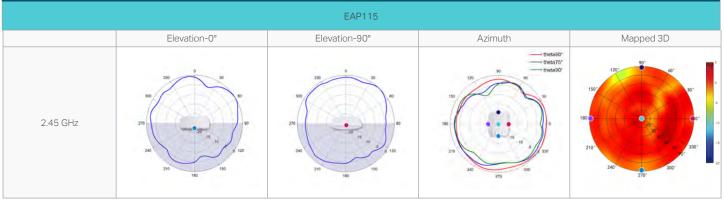
Ceiling Mount 80	2.11n/ac AP							
Model		EAP265 HD	EAP245	EAP225	EAP223	EAP115	EAP110	
	Multiple SSIDs	16 (8 on each band) 8 *15 SSIDs (8 for 2.4GHz, 7 for 5GHz): EAP225 V5, EAP223 V1, EAP245 V4						
	Enable/Disable Wireless Radio	•						
	Enable/Disable SSID	•						
	Broadcast	-						
	Guest Network	•						
	Automatic Channel	•						
	Assignment	·						
	Transmit Power Control	Adjust transn	nit Power on dBm					
	QoS (WMM)	•						
	Seamless Roaming	•				-		
	Mesh	•				-		
Wireless Function	Beamforming	•				-		
	MU-MIMO	•				-		
	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	•						
		6.5 Mbps to 13	00 Mbps (MCS0-	6.5 Mbps to 8	367 Mbps (MCS0-			
	802.11ac	MCS9, NSS = 1	I to 3 VHT20/40/80)	MCS9, NSS =	1 to 2 VHT20/40/80)	-		
Support Data Rates	802.11n	6.5 Mbps to 450 Mbps (MCS0-MCS23, HT20/40)			6.5 Mbps to 3 MCS15, HT2	800 Mbps (MCS0- 0/40)		
	802.11g	6, 9, 12, 18, 24, 36, 48, 54 Mbps						
	802.11b	1, 2, 5.5, 11 Mb	ips					
	802.11a	6, 9, 12, 18, 24, 36, 48, 54 Mbps				-		
	LED ON/OFF Control	•						
	Management MAC Access							
	Control	•						
	Web-based Management	•						
	SNMP	v1, v2c						
Management	SSH	•						
	Restore & Backup	•						
	Firmware update via Web	•						
	NTP	•						
	System Log	•						
	Email Alerts	•						

Ceiling Mount 802.	11n/ac AP						
Model		EAP265 HD	EAP245	EAP225	EAP223	EAP115	EAP110
Physical & Environment	Power Supply	802.3af/at PoE or 48 V Passive PoE (+4,5 pins; -7,8 pins. PoE Adapter Included)	V4: 802.3at PoE or 48 V Passive PoE (+4,5 pins; -7,8 pins. PoE Adapter Included) V3: 802.3af/at PoE or 48 V Passive PoE (+4,5 pins; -7,8 pins. PoE Adapter Included)	V5: 802.3af/at PoE or 48 V Passive PoE (+4,5 pins; -7,8 pins. PoE Adapter Included) V4: 802.3af/at PoE or 24V Passive PoE (+4,5pins; -7,8 pins. PoE Adapter Included)	V2: 802.3af/at PoE or 24V Passive PoE (+4,5pins; -7,8 pins) PoE Adapter Is Not Included V1: 802.3af/at PoE or 48 V Passive PoE (+4,5 pins; -7,8 pins) PoE Adapter Is Not Included	802.3af/at PoE or external 9 V/0.6 A DC power supply	24 V Passive PoE (+4,5 pins) -7,8 pins. PoE Adapter Included)
	Maximum Power Consumption	12.3 W	12.3 W	V4: 12.6W V5: EU: 9.7W (802.3at PoE or Passive PoE) US: 12.1W (802.3at PoE or Passive PoE)	V1: EU: 9.7W (802.3at PoE or Passive PoE) US: 12.1W (802.3at PoE or Passive PoE) V2: 12.6W	3.1 W	2.8 W
	Reset	•				·	
	Mounting	Ceiling/Wall mo	ounting (Kits inclu	ided)			
	Certifications	CE, FCC, RoHS					
	Dimensions (W x D x H)	205.5 x 181.5 x 3	7.1 mm			189.4 x172.3 x 29	9.5 mm
Others	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					

	EAP265 HD								
	Elevation-0°	Elevation-90°	Azimuth	Mapped 3D					
2.45 GHz	200 200 200 500 10 10 10 10 10 10 10 10 10	200 0 0 0 0 0 0 0 0 0 0 0 0	150 150 150 150 150 150 150 150	120° - 40° -					
5.25 GHz	200 200 200 200 500 500 500 500 500 500	270 200 210 100 150	100 100 100 100 100 100 100 100 100 100	120 ¹ 150 ¹ 160 ¹ 210 ¹ 240 ¹ 200 ¹ 270 ¹ 00 ¹ 0					
5.5 GHz	270 200 210 150 150	270 240 210 150	50 150 150 150 150 150 150 150 1	100 ⁻⁰⁰ -00 ⁻⁰⁰ -000-000					
5.75 GHz	270 240 210 150	200 200 200 200 200 200 200 200 50 50 50 50 50 50 50 50 50 50 50 50 5	50 00 00 00 00 00 00 00 00 00 00 00 00 0	100 100 100 100 100 100 100 100					

	EAP245								
	Elevation-0°	Elevation-90°	Azimuth	Mapped 3D					
2.45 GHz	200 200 200 200 500 500 500 500 500 500	200 200 200 300 0 0 0 0 0 0 0 0 0 0 0 0	150 150 150 150 150 150 150 150	120° - 40° -					
5.25 GHz	200 200 200 200 200 50 50 50 50 50 50 50 50 50 50 50 50 5	270 200 210 150 200 150 200 150 150	100 100 100 100 100 100 100 100 100 100	120' 150' 160' 210' 240' 270' 200'					
5.5 GHz	270 240 210 150 150	270 240 210 150	50 150 150 150 150 150 150 150 1	120 ⁻ 150 ⁻ 180 ⁻ 210 ⁻ 240 ⁻ 270 ⁻ 20					
5.75 GHz	270 200 210 100 100 100	200 200 200 200 200 200 200 200 15 15 100 150	50 00 00 00 00 00 00 00 00 00 00 00 00 0	100 100 100 100 100 100 100 100					

	EAP225 / EAP223							
	Elevation-0°	Elevation-90°	Azimuth	Mapped 3D				
2.45 GHz	300 200 210 150 150 150	300 0 0 0 0 0 0 0 0 0 0 0 0	10000000000000000000000000000000000000	530° 60° 60° 150° 0° 60° 0° 180° 0° 0° 0° 210° 0° 0° 0° 0° 210° 0° 0° 0° 0° 0° 210° 0° 0° 0° 0° 0° 0° 0° 210° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0				
5.25 GHz	300 0 0 0 0 0 0 0 0 0 0 0 0	300 0 0 0 0 0 0 0 0 0 0 0 0	10000000000000000000000000000000000000	100 ^{-00⁻⁰⁰-00⁻⁰⁰ 100⁻⁰⁰-00⁻⁰⁰-00⁻⁰⁰ 210⁻⁰⁰-00⁻⁰⁰}				
5.5 GHz	270 240 219 180	270 240 210 180	100 000 000 000 000 000 000 000 000 000	200 [°] 00 [°]				
5.75 GHz	270 240 219 150	300 0 0 0 0 0 0 0 0 0 0 0 0	100 - 100 -	180 180 210 210 210 210 210 210 210 21				



iling Mount AP				
		EAP110		
	Elevation-0°	Elevation-90°	Azimuth	Mapped 3D
2.45 GHz	200 200 200 200 300 500 500 500 500 500 500 500 500 5	500 500 500 500 500 500 500 500	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	

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 coverageare 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. Specifications are subject to change without notice. © 2023 TP-Link

