



EAP650-Outdoor

# EAP Product List

#### Outdoor 802.11n/ac/ax AP

Picture	
Model	EAP650-Outdoor
Product	AX3000 Indoor/Outdoor Wi-Fi 6 Access Point
Speed	2.4 GHz: 574 Mbps
	5 GHz: 2402 Mbps
Ethernet Port	1x Gigabit Ethernet Port
Power Supply	802.3at PoE /
	48V Passive PoE
Internal Antennas	2 Internal Dual-Band Omni Antennas
	2.4 GHz: 4 dBi; 5 GHz: 5 dBi

# Specifications

### Outdoor 802.11ax AP

Outdoor 802.11ax AP				
Model		EAP650-Outdoor		
Name		AX3000 Indoor/Outdoor Wi-Fi 6 Access Point		
	LAN Interfaces	1x Gigabit Ethernet Port		
	Wi-Fi Standards	IEEE 802.11a/b/g/n/ac/ax		
	Maximum Data Rate	574 Mbps (2.4 GHz) + 2402 Mbps (5 GHz)		
Main Design	Wireless Client Capacity	250+		
	Antennas	2 Internal Dual-Band Omni Antennas		
		2.4 GHz: 4 dBi; 5 GHz: 5 dBi		
	Transmit Power	CE: < 20 dBm (2.4 GHz, EIRP), < 23 dBm (5 GHz, EIRP)		
	Omada Software Controller	•		
Centralized Management	Omada Hardware Controller	•		
	Omada APP	•		
	Captive Portal Authentication	•		
	Access Control	•		
	Maximum number of MAC Filter	4000		
	Wireless Isolation between			
Security	Clients			
	VLAN	•		
	Rogue AP Detection	•		
	Wireless Encryption	WPA-Personal/Enterprise, WPA2-Personal/Enterprise, WPA3-Personal/Enterprise		
	802.1X Support	•		
	Multiple SSIDs	16 (8 for each band)		
	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	•		
Wireless Function	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	•		
	802.11ax	8Mbps to 2402Mbps(MCS0-MCS11, NSS = 1 to 2 HE20/40/80/160)		
	802.11ac	6.5 Mbps to 1083.3 Mbps (MCS0-MCS9, NSS = 1 to 2 VHT20/40/80)		
Support Data Rates	802.11n	6.5 Mbps to 300 Mbps (MCS0-MCS15, HT20/40)		
Support Data Nates	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		

Outdoor 802.11ax AP				
Model		EAP650-Outdoor		
	LED ON/OFF Control	•		
	Management MAC Access	•		
	Control			
	Web-based Management	•		
	SNMP	v1, v2c, v3		
Management	SSH	•		
	Restore & Backup	•		
	Firmware update via Web	•		
	NTP	•		
	System Log	•		
	Email Alerts	•		
	Power Supply	802.3at PoE or 48V Passive PoE (PoE Adapter Included)		
	Maximum Power Consumption	EU: 12.5W (802.3at PoE or Passive PoE)		
Physical & Environment		US: 14.7W (802.3at PoE or Passive PoE)		
	Reset	•		
	Mounting	Pole/Wall mouting (Kits included)		
	Certifications	CE, FCC, RoHS		
	Dimensions (W x D x H)	280.4 × 106.5 × 56.8 mm		
Others	Environment	Operating Temperature: -30 °C–70 °C (-22 °F–158 °F);		
Child		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



\*EAP650-Outdoor is based on EAP610-Outdoor and adds a set of auxiliary antennas to combat outdoor interference. The two sets of antennas do not work at the same time, and the directivity of the auxiliary antenna will not be better than the original antenna.

## 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.

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