

# EAP650-Outdoor and Indoor

Access Point

- High-speed Wi-Fi 6: combined speed on two bands — up to 3 Gbit
- High efficiency: OFDMA and MU-MIMO allow you to connect more devices without delays and loss of speed
- 160 MHz wide channels: twice as much data in a single stream
- Large coverage area: powerful amplifier and antennas in an IP67 weatherproof enclosure
- Omada Mesh Technology: Provides Wi-Fi connectivity between access points to increase their range and deploy easily
- PoE Power: Supports POE+ 802.3 at and Passive PoE (adapter included)
- Centralized Cloud Management: Integration with Omada SDN for cloud access and remote management



## Detailed

Hardware Specifications	
Interfaces	1 Gigabit RJ45 Ethernet port (with POE 802.3 at and Passive PoE support)
Buttons	Reset (reset settings)
Power supply	* POE 802.3 at • Passive PoE 48V (PoE adapter included)
Power consumption	12.5 W (POE 802.3 at or Passive PoE)
Dimensions (W × L × H)	280.4 × 106.5 × 56.8 mm (excluding antenna and mount)
Antenna	• 2.4 GHz: 2 4dBi antennas • 5GHz: 2 5dBi antennas

Protection	IP67
<b>Wi-Fi Settings</b>	
Maximum number of simultaneous Wi-Fi connections	250
Wi-Fi Standards	IEEE 802.11ax/ac/n/g/b/a
Frequency ranges	2.4 GHz and 5GHz
Transfer Rate	<ul style="list-style-type: none"><li>• 2.4 GHz: 2x2 MIMO</li><li>• 5GHz: 2x2 MIMO</li></ul> <p>* 802.11 ax: 8 Mbit / s to 2402 Mbit / s (MCS0-MCS11, NSS = 1 to 2 HE20/40/80/160</p> <p>* 802.11 ac: 6.5 Mbps to 1083.3 Mbps (MCS0-MCS9, NSS = 1 to 2 VHT20/40/80)</p> <p>* 802.11 n: 6.5 Mbps to 300 Mbps (MCS0-MCS15, VHT 20/40)</p> <p>* 802.11 g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps</p> <ul style="list-style-type: none"><li>• 802.11 b: 1, 2, 5.5, 11 Mbps</li><li>* 802.11 a: 6, 9, 12, 18, 24, 36, 48, 54 Mbit / s</li></ul>
EIIM	< 20 dBm or < 100 MW
Wi-Fi Features	<ul style="list-style-type: none"><li>• 1024-QAM</li><li>• OFDM symbol 4 times longer</li><li>• OFDMA</li><li>• Multiple SSIDs (up to 16 SSIDs, up to 8 per band)</li><li>* Enable/Turning off Wi-Fi</li><li>• Automatic channel assignment</li><li>• Transmission power control (in dBm)</li><li>• QoS (WMM)</li><li>• MU-MIMO</li><li>• Omada Mesh</li><li>* Seamless roaming</li><li>• Band Steering</li><li>• Load Balancing</li><li>• Airtime Fairness</li><li>• Beamforming</li><li>• Speed Limiting</li><li>• Scheduled reboot</li><li>• Scheduled Wi-Fi</li><li>• Wi-Fi statistics (SSID, access point, client)</li></ul>
Wi-Fi network Protection	<p>* Authentication Portal</p> <ul style="list-style-type: none"><li>• Access control</li><li>• MAC address filtering</li><li>• Isolating wireless clients</li><li>• Matching SSID → VLAN</li><li>• Detecting fake access points</li><li>• 802.1 X Support</li><li>• WPA-Personal/Enterprise, WPA2-Personal/Enterprise, WPA3-Personal/Enterprise Encryption</li></ul>
<b>Management</b>	
The Omada App	Yes
Cloud access	Yes
Email notification	Yes
SNMP	v1, v2c
System Log	Yes
SSH	Yes

Web-based management interface	Yes
Level 3 Management	Yes
Managing different locations	Yes
VLAN Management	Yes
Automatic configuration of parameters	Yes
<b>Other</b>	
Certification process	CE, FCC, RoHS
Scope of delivery	<ul style="list-style-type: none"><li>• Access Point</li><li>• Passive PoE Adapter</li><li>• Power Cable</li><li>• Installation kit</li><li>• Installation and Setup Guide</li></ul>
System requirements	Windows: XP, Vista, 7, 8, 10, 11; Linux
Environmental parameters	<ul style="list-style-type: none"><li>* Operating temperature: -30...+70 °C</li><li>* Storage temperature: -40...+70 °C</li><li>• Operating humidity: 10-90% non-condensing</li><li>• Storage humidity: 5-90% non-condensing</li></ul>