



AX1800 Wi-Fi 6 Smart Managed Wi-Fi System

PrimeAX 1-2-3

FEATURES

- **Plug-and-Play, Self-Managed, Pre-Configured Wi-Fi System:** Pre-configured AP with self-managed functions for easy plug-and-play
- **Smart Wizard, Easy to setup:** Follow the smart wizard that provides you with step-by-step guide, setting up your new network as easy as 5 steps
- **AX1800 Wi-Fi 6 High-Speed:** Max Wi-Fi speed up to 1800Mbps (2.4GHz at 574Mbps and 5GHz at 1201Mbps)
- **Efficient 2-way MU-MIMO:** Serves multiple devices simultaneously that enhances the capacity of connected devices for both uplink and downlink data transmission
- **Uplink/Downlink of OFDMA:** OFDMA is ideal for low bandwidth applications which results in better frequency reuse, reduced latency, and increased efficiency
- **Power Saving TWT (Target Wake Time):** Less battery drain with Target Wakeup Time (TWT) which allows devices to negotiate when and how often they will wake up to send or receive data for longer battery life. This is particularly important for IoT
- **Less Interference:** BSS Coloring maximizes network performance by reducing interference where client density is high
- **High Performance Wi-Fi:** Beamforming, AirTime Fairness, Band Steering and 802.11r/k Fast Roaming enhanced for best Wi-Fi performance
- **High Density Mobile & IoT Usage:** Supports up to 256 users simultaneously (128 users per band), ideal for BYOD (Bring Your Own Device) workplace
- **Reliable, Secure Wi-Fi:** WPA3 & WPA2-AES encryption supported for high level of security.
- **Multiple SSIDs for Security Management:** Supports up to 32 SSIDs (16 x 2.4GHz & 16 x 5GHz) ideal for multiple departments, groups, customers or guests
- **Wide Coverage & High Sensitivity:** Adjustable RF output power and high receiver sensitivity for wide coverage across large spaces
- **Power over Ethernet (PoE):** Supports IEEE 802.3af PoE and includes a power jack for flexible power supply options
- **Built-In RADIUS Server:** With management for up to 256 user accounts
- **Works with APC500:** PrimeAX 1-2-3 (Master) & PrimeAX +1 can also be managed by APC500 NMS
- **Expandable for Business Environments:** Expandable with PrimeAX +1 Add-on AP, up to a total of 16 APs Suitable for a wide range of commercial applications such as offices, hotels, meeting rooms, schools, campuses, resorts, retail and others

OVERVIEW

The PrimeAX 1-2-3, a simple, secure, complete and expandable Wi-Fi system with IEEE 802.11ax Wi-Fi 6 technology for wireless speeds up to 1800Mbps (574Mbps at 2.4GHz and 1201Mbps at 5GHz). Enterprise-grade performance and build quality, combined with user-friendly operation, easy deployment, super-fast wireless speed, an extensive feature set and a practical, ceiling-mount design make an ideal dual-band solution for enterprise environments that demand security, reliability, expandability, high-density and high-speed wireless connectivity of mobile and IoT environments such as offices, schools, hotels, hospitals, retail shops or shopping malls.

The PrimeAX 1-2-3, 2-pack kit equips with pre-configured Slave AX1800 AP, achieves seamless Wi-Fi coverage and eliminate Wi-Fi dead zones. Built-in smart wizard makes network setup and management efficient and friendly, you can easily configure your admin username/password, choose your time zone, find your paired devices via Device Discovery Tool and configure 2.4G/5G Wi-Fi SSID name/password, including security (WPA/WPA2/WPA3 etc..).

What's more, the PrimeAX 1-2-3 features AX technology such as BSS coloring, DL/UL OFDMA, DL/UL MU-MIMO, TWT provides improvements in throughput, multi-device support, and Wi-Fi spectrum efficiency for streaming, gaming, media sharing, increases battery life efficiency for devices and reduce power consumption.

Plug-and-play, Easy Smart Wizard Setup



1. Power on and connect the PrimeAX 1-2-3 APs to the existing network switch. Your Wi-Fi network is ready to use or go through the smart wizard for initial customized setup.
2. Access the smart wizard with a web browser . (Dedicated IP address listed on product label.)
3. Follow the Smart Wizard instructions to configure the Wi-Fi networks in 5 steps.

802.11AX Technology Features and Benefits



More Capacity

Up to 4X capacity and data throughput to maximize Wi-Fi performance with both uplink and downlink MU-MIMO serving multiple devices simultaneously.



Fastest Speed

Offers up to 1.8Gbps peak speeds through Dual Band Simultaneous (DBS) combining 2.4 and 5GHz bands, and higher order modulation (1024 QAM) for streaming HD videos without lag.



Further Range

New packet format, longer guard intervals and modes that introduce redundancy, allowing error recovery in order to extend the range, especially for outdoor Wi-Fi Point-to-Point links.



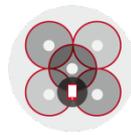
Better Efficiency

OFDMA is designed to be more efficient at low data rates for short packets and allows multiple users with varying bandwidth needs to be served simultaneously for efficient access.



Power Saving

Less battery drain with Target Wakeup Time (TWT) which allows devices to negotiate when and how often they will wake up to send or receive data for longer battery life.



Reduced Interference and Waiting Time

Maximizes network performance by working even within heavily congested, co-channel interference environments.

Business-Grade Wi-Fi Setup Has Never Been This Easy



Plug-and-Play, Pre-Configured

The PrimeAX 1-2-3 come with pre-configuration default settings. Whether you're an end-user or a installer you can "plug-n-play" right out of the box.

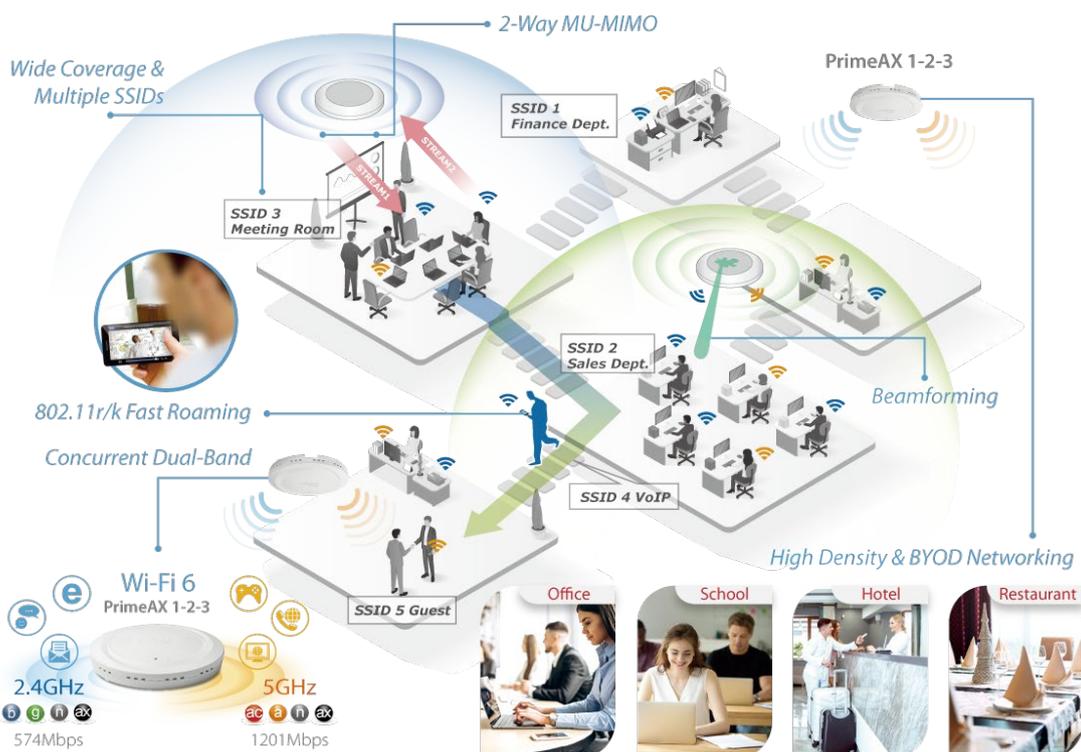


Smart Wizard

The PrimeAX 1-2-3 Wizard is an accessible step-by-step wizard for first time users. Within 5 steps user can complete the Wi-Fi settings with ease.

Expandable Wi-Fi System

Prime AX1-2-3 includes 2 APs (master and slave) and are expandable with PrimeAX +1 Add-on AP, up to a total of 16 APs.



SPECIFICATIONS

HARDWARE	
Interface	1 x RJ45 10/100/1000Mbps Ethernet Port (PoE in)
Button	Reset button
LED Indicator	<ul style="list-style-type: none"> Power LED Diag LED
Antenna	<ul style="list-style-type: none"> Type: 2 x Built-In PIFA (2 dual-band antenna) Gain: 2.2dBi (2.4GHz), 2.9dBi (5GHz) Max.
Power	<ul style="list-style-type: none"> DC: 12V / 1A 802.3af (PoE Injector Optional)
Power Consumption	12W (Full Loading)
Power Saving	802.3az
Mounting	Ceiling
Housing	UL94-5VB Flammability Rating
Dimension	176.29 (D) x 32.75 (H) mm
Weight	372g

WIRELESS			
Standard	802.11 a/b/g/n/ac/ax Concurrent Dual-Band		
Frequency Band	<ul style="list-style-type: none"> Radio I : 802.11b/g/n/ax 2.412~2.484(GHz) Radio II : 802.11a/n/ac/ax 5.15~5.25(GHz), 5.25~5.35(GHz), 5.470~5.725(GHz) (The supported frequency band is restricted by local regulations.)		
Maximum Data Speed	<ul style="list-style-type: none"> 2.4GHz: 574Mbps 5GHz: 1201Mbps 		
Operation Channels	<ul style="list-style-type: none"> 2.4GHz : US/Canada 1-11; 2.412~2.462GHz Europe 1-13; 2.412~2.472GHz 5GHz : Country dependent for the following ranges: US/Canada: <ul style="list-style-type: none"> Band 1: 36, 40, 44, 48; 5.180~5.240(GHz) Band 4: 149, 153, 157, 161, 165; 5.745~5.825(GHz) Europe: <ul style="list-style-type: none"> Band 1: 36, 40, 44, 48; 5.180~5.240(GHz) 		
Maximum Transmit Power	<table border="0"> <tr> <td> <ul style="list-style-type: none"> 802.11b 17dBm@1Mbps 17dBm@11Mbps 802.11g 17dBm@6Mbps 15dBm@54Mbps 802.11n (2.4G) 17dBm@MCS0(HT20) 15dBm@MCS7(HT20) 12dBm@MCS9(HT40) 802.11ax (2.4G) 9dBm@MCS11(HT40) 15dBm@MCS4/12 15dBm@MCS5/13 14dBm@MCS6/14 14dBm@MCS7/15 </td> <td> <ul style="list-style-type: none"> 802.11a 17dBm@6Mbps 16dBm@54Mbps 802.11n(5G) 17dBm@MCS0 (VHT80) 15dBm@MCS7 (VHT80) 14dBm@MCS9 (VHT80) 802.11ax (5G) 10dBm@MCS11 (HT80) </td> </tr> </table> (CE: 20dBm or lower, FCC: 23dBm or lower)	<ul style="list-style-type: none"> 802.11b 17dBm@1Mbps 17dBm@11Mbps 802.11g 17dBm@6Mbps 15dBm@54Mbps 802.11n (2.4G) 17dBm@MCS0(HT20) 15dBm@MCS7(HT20) 12dBm@MCS9(HT40) 802.11ax (2.4G) 9dBm@MCS11(HT40) 15dBm@MCS4/12 15dBm@MCS5/13 14dBm@MCS6/14 14dBm@MCS7/15 	<ul style="list-style-type: none"> 802.11a 17dBm@6Mbps 16dBm@54Mbps 802.11n(5G) 17dBm@MCS0 (VHT80) 15dBm@MCS7 (VHT80) 14dBm@MCS9 (VHT80) 802.11ax (5G) 10dBm@MCS11 (HT80)
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Receiver Sensitivity	<table border="0"> <tr> <td> <ul style="list-style-type: none"> 802.11b ≤-88dBm@1Mbps ≤-86dBm@11Mbps 802.11g ≤-88dBm@6Mbps ≤-71dBm@54Mbps 802.11gn (2.4G) ≤-88dBm@MCS0 ≤-68dBm@MCS7 ≤-60dBm@MCS9 802.11ax (2.4G) ≤-53dBm@MCS11 </td> <td> <ul style="list-style-type: none"> 802.11a ≤-87dBm@6Mbps ≤-68dBm@54Mbps 802.11n(5G) ≤-87dBm@MCS0 ≤-68dBm@MCS7 802.11ac ≤-56dBm@MCS9 802.11ax (5G) ≤-50dBm@MCS11 </td> </tr> </table>	<ul style="list-style-type: none"> 802.11b ≤-88dBm@1Mbps ≤-86dBm@11Mbps 802.11g ≤-88dBm@6Mbps ≤-71dBm@54Mbps 802.11gn (2.4G) ≤-88dBm@MCS0 ≤-68dBm@MCS7 ≤-60dBm@MCS9 802.11ax (2.4G) ≤-53dBm@MCS11 	<ul style="list-style-type: none"> 802.11a ≤-87dBm@6Mbps ≤-68dBm@54Mbps 802.11n(5G) ≤-87dBm@MCS0 ≤-68dBm@MCS7 802.11ac ≤-56dBm@MCS9 802.11ax (5G) ≤-50dBm@MCS11
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Concurrent Clients	Up to 128 Per Radio		
No. of SSIDs	2 Default SSIDs (2.4GHz and 5GHz), 16 (2.4GHz) + 16 (5GHz)		
802.11 r/k Fast Roaming	Y		
Band Steering	Y		
AirTime Fairness	Y		
Beamforming	Y		

SOFTWARE	
Wireless Mode	AP / WDS AP / WDS Bridge
802.1q VLAN	Y (VID = 1-4095)
Spanning Tree	RSTP
QoS	<ul style="list-style-type: none"> WMM (802.11e) Max associated station number
Pass-Through	IPv6 and VPN (PPTP, L2TP/IPsec)
DSCP (802.1p)	Y
Multicast Rate up to 54Mbps	Y

SECURITY	
Encryption	WEP / WPA2-AES / WPA3
Wireless L2 Isolation	Y
Station Isolation	Y
IEEE 802.1x Authenticator	Y
EAP Authentication	PEAP
Hidden SSID	Y
MAC Address Filter	Y
Wireless Client Isolation	Y
Rogue AP Detection (w/ NMS)	Y

MANAGEMENT	
Deployment	<ul style="list-style-type: none"> Master (Controller mode): Can manage 16 EDIMAX PrimeAX +1 APs Slave (Managed AP mode): Managed by EDIMAX PrimeAX 1-2-3 Master AP and APC500
Configuration	<ul style="list-style-type: none"> HTTP/HTTPS SNMP v1, v2c, v3 CLI (Telnet, SSH)
RADIUS Server	Built-In
Auto-Channel	Y
Private MIB	Y

OTHERS	
Certification	CE, FCC
Environmental Condition	<ul style="list-style-type: none"> Operating Temperature: 0°C~40°C (32°F~104°F) Operating Humidity: 90% or Less
Package Content	<ul style="list-style-type: none"> 2 x PrimeAX 1-2-3 AX1800 Ceiling Mount PoE Access Point (Master & Slave) 2 x Ceiling-Mount & T-rail Mount Bracket Kit 2 x Ethernet Cable Quick Installation Guide

OPTIONAL ACCESSORIES	
PrimeAX +1	Add-on Access Point for PrimeAX 1-2-3 Wi-Fi System

Maximum performance, actual data rates, and coverage will vary depending on network conditions and environmental factors. Product specifications and design are subject to change without notice.
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