



- 2.4G & 5.8G 3600Mbps Ceiling Access Point**
- 1: PQ5322+QCN6274+QCA8386
 - 16MB Flash, Maximum support for wireless access with 128 users;
 - 2: 1×10/100/1000Mbps WAN, 1x10/100/1000Mbps LAN;
 - 3: 100 Meters LOS wireless cover range;
 - 4: Support Watchdog/Scheduling Reboot; Enhanced MU-MIMO, MLO+MRU+Preamble Puncture;
 - 5: Support QVLAN+SSID, Portal,AC controller Managed;
 - 6: Flexible wall or ceiling mounting options;

Product Introduction

The EW-AP7900 is a ceiling-mount wireless access point based on the IEEE 802.11be (Wi-Fi 7) standard, supporting tri-band operation on 2.4GHz, 5GHz, and 6GHz frequencies. It delivers data rates of up to 688Mbps on 2.4GHz, 2882Mbps on 5GHz, and 5764Mbps on 6GHz, providing high-speed and stable wireless connectivity for up to 194 concurrent users.

Equipped with a 10/100/1000/2500Mbps and 10G SFP port and supporting 48V PoE power supply, the EW-AP7900 enables flexible and simplified installation. It ensures reliable coverage, high throughput, and low-latency performance, making it an ideal solution for indoor ceiling deployment in offices, hotels, schools, and commercial environments.

Technical Specification

Model	EW-AP7900
Hardware Configuration	
Main Chip	PQ5322+QCN6274+QCA8386
Memory	1024MB DDR4

Flash	Nand 128MB				
2.4G Frequency	2.4GHz ~ 2.484GHz				
5G Frequency	5.150GHz ~ 5.825GHz				
6G Frequency	6GHz: 5.925GHz ~ 7.125GHz				
Wireless Technology	2.4GHz Band: IEEE 802.11 b/g/n/ax/be, theoretical maximum data rate up to 688Mbps 5GHz Band: IEEE 802.11 a/n/ac/ax/be, theoretical maximum data rate up to 2882Mbps 6GHz Band: IEEE 802.11 a/n/ac/ax/be, theoretical maximum data rate up to 5764Mbps				
Tri-Band Antenna	2.4GHz: 2×4dBi 5GHz: 2×4dBi 6GHz: 2X2dBi				
TX Power	Standard	Data Rate / MCS	Typical TX Power	Minimum TX Power	
2.4G TX Power	802.11b	11M	24 ± 2dBm	1M	24 ± 2dBm
	802.11g	54M	23 ± 2dBm	6M	24 ± 2dBm
	802.11n HT20	MCS7	22 ± 2dBm	MCS0	24 ± 2dBm
	802.11n HT40	MCS7	22 ± 2dBm	MCS0	24 ± 2dBm
	802.11ax HE20	MCS11	20 ± 2dBm	MCS0	24 ± 2dBm
	802.11ax HE40	MCS11	20 ± 2dBm	MCS0	24 ± 2dBm
	802.11be EHT20	MCS13	20 ± 2dBm	MCS0	24 ± 2dBm
	802.11be EHT40	MCS13	20 ± 2dBm	MCS0	24 ± 2dBm
TX Power	Standard	Data Rate / MCS	Typical TX Power	Minimum TX Power	
5G TX Power	802.11a	54M	21 ± 2dBm	6M	23 ± 2dBm
	802.11n HT20	MCS7	20 ± 2dBm	MCS0	23 ± 2dBm
	802.11n HT40	MCS7	20 ± 2dBm	MCS0	23 ± 2dBm
	802.11ac VHT20	MCS7	19 ± 2dBm	MCS0	23 ± 2dBm
	802.11ac VHT40	MCS7	19 ± 2dBm	MCS0	23 ± 2dBm
	802.11ac VHT80	MCS9	19 ± 2dBm	MCS0	23 ± 2dBm
	802.11ax HE20	MCS11	18 ± 2dBm	MCS0	23 ± 2dBm
	802.11ax HE40	MCS11	18 ± 2dBm	MCS0	23 ± 2dBm
	802.11ax HE80	MCS11	18 ± 2dBm	MCS0	23 ± 2dBm
	802.11ax HE160	MCS11	18 ± 2dBm	MCS0	23 ± 2dBm
	802.11be EHT20	MCS13	18 ± 2dBm	MCS0	23 ± 2dBm
	802.11be EHT40	MCS13	18 ± 2dBm	MCS0	23 ± 2dBm
	802.11be EHT80	MCS13	18 ± 2dBm	MCS0	23 ± 2dBm
	802.11be EHT160	MCS13	18 ± 2dBm	MCS0	23 ± 2dBm
	802.11be EHT240	MCS13	18 ± 2dBm	MCS0	23 ± 2dBm
Rx Sensitivity	Standard	Data Rate / MCS	Typical RX Power	Minimum RX Power	
6G TX Power	802.11a	54M	20 ± 2dBm	6M	
	802.11n HT20	MCS7	20 ± 2dBm	MCS0	
	802.11n HT40	MCS7	20 ± 2dBm	MCS0	
	802.11ac VHT20	MCS8	19 ± 2dBm	MCS0	
	802.11ac VHT40	MCS9	19 ± 2dBm	MCS0	

	802.11ac VHT80	MCS9	18 ± 2dBm	MCS0	
	802.11ax HE20	MCS11	18 ± 2dBm	MCS0	
	802.11ax HE40	MCS11	18 ± 2dBm	MCS0	
	802.11ax HE80	MCS11	17 ± 2dBm	MCS0	
	802.11ax HE160	MCS11	17 ± 2dBm	MCS0	
	802.11be EHT20	MCS13	16 ± 2dBm	MCS0	
	802.11be EHT40	MCS13	16 ± 2dBm	MCS0	
	802.11be EHT80	MCS13	16 ± 2dBm	MCS0	
	802.11be EHT160	MCS13	16 ± 2dBm	MCS0	
	802.11be EHT320	MCS13	15 ± 2dBm	MCS0	
Rx Sensitivity	Standard	Data Rate / MCS	Typical RX Power	Minimum RX Power	
2.4G Receiving Sensitivity	802.11b	11M	-89dBm	1M	-95dBm
	802.11g	54M	-75dBm	6M	-92dBm
	802.11n HT20	MCS7	-72dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-70dBm	MCS0	-86dBm
	802.11ax HE20	MCS11	-62dBm	MCS0	-88dBm
	802.11ax HE40	MCS11	-60dBm	MCS0	-86dBm
	802.11be EHT20	MCS13	-60dBm	MCS0	-86dBm
	802.11be EHT40	MCS13	-60dBm	MCS0	-86dBm
Rx Sensitivity	Standard	Data Rate / MCS	Typical RX Power	Minimum RX Power	
5G Receiving Sensitivity	802.11a	54M	-75dBm	6M	-92dBm
	802.11n HT20	MCS7	-72dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-70dBm	MCS0	-86dBm
	802.11ac VHT20	MCS7	-65dBm	MCS0	-88dBm
	802.11ac VHT40	MCS7	-62dBm	MCS0	-86dBm
	802.11ac VHT80	MCS9	-60dBm	MCS0	-84dBm
	802.11ax HE20	MCS11	-60dBm	MCS0	-90dBm
	802.11ax HE40	MCS11	-58dBm	MCS0	-88dBm
	802.11ax HE80	MCS11	-54dBm	MCS0	-84dBm
	802.11ax HE160	MCS11	-54dBm	MCS0	-82dBm
	802.11be EHT20	MCS13	-54dBm	MCS0	-86dBm
	802.11be EHT40	MCS13	-52dBm	MCS0	-84dBm
	802.11be EHT80	MCS13	-50dBm	MCS0	-82dBm
	802.11be EHT160	MCS13	-48dBm	MCS0	-80dBm
	802.11be EHT240	MCS13	-48dBm	MCS0	-80dBm
Rx Sensitivity	Standard	Data Rate / MCS	Typical RX Power	Minimum RX Power	
6G Receiving Sensitivity	802.11a	54M	-74dBm	6M	-92dBm
	802.11n HT20	MCS7	-72dBm	MCS0	-88dBm
	802.11n HT40	MCS7	-63dBm	MCS0	-88dBm
	802.11ac VHT20	MCS8	-60dBm	MCS0	-88dBm
	802.11ac VHT40	MCS9	-60dBm	MCS0	-88dBm
	802.11ac VHT80	MCS9	-60dBm	MCS0	-86dBm
	802.11ax HE20	MCS11	-60dBm	MCS0	-90dBm

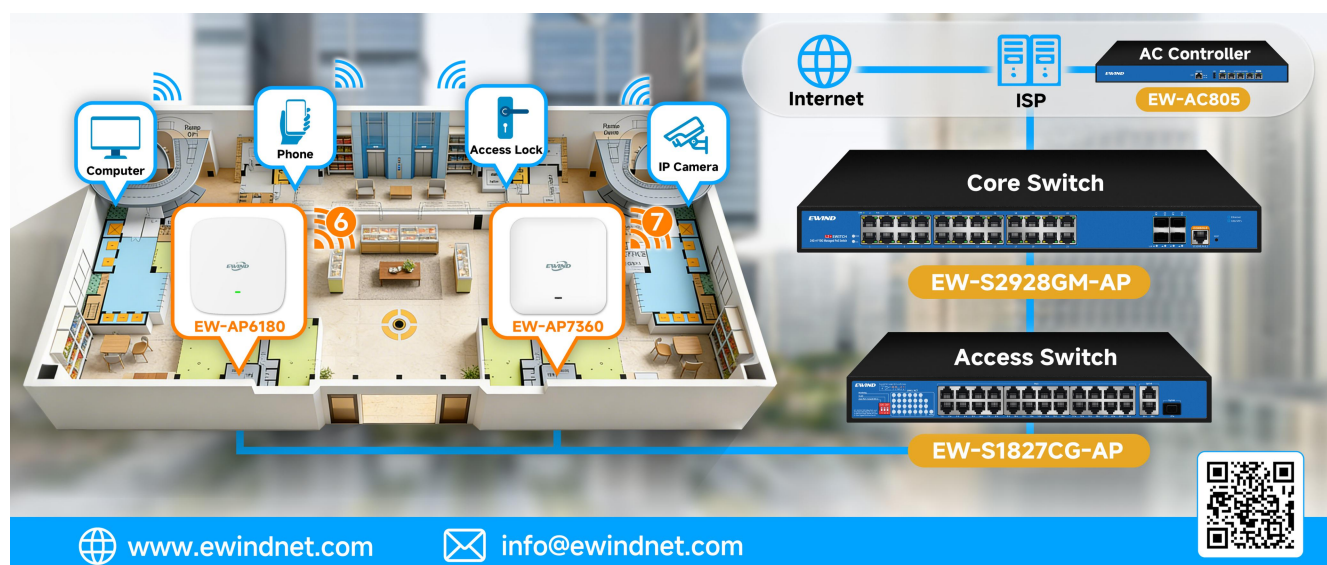
	802.11ax HE40	MCS11	-58dBm	MCS0	-88dBm
	802.11ax HE80	MCS11	-55dBm	MCS0	-84dBm
	802.11ax HE160	MCS11	-51dBm	MCS0	-82dBm
	802.11be EHT20	MCS13	-54dBm	MCS0	-86dBm
	802.11be EHT40	MCS13	-52dBm	MCS0	-84dBm
	802.11be EHT80	MCS13	-50dBm	MCS0	-82dBm
	802.11be EHT160	MCS13	-48dBm	MCS0	-80dBm
	802.11be EHT320	MCS13	-46dBm	MCS0	-78dBm
2.4G EVM	802.11b: ≤-10 dB; 802.11g: ≤-25 dB; 802.11n: ≤-28dB; 802.11ax: ≤-35 dB; 802.11be: ≤-38 dB				
5G EVM	802.11a: ≤-25 dB ; 802.11n: ≤-28 dB ; 802.11ac: ≤-32 dB; 802.11ax: ≤-35 dB; 802.11be: ≤-38 dB				
6G EVM	802.11a: ≤-25 dB ; 802.11n: ≤-28 dB ; 802.11ac: ≤-32 dB; 802.11ax: ≤-35 dB; 802.11be: ≤-38 dB				
ppm	±20ppm				
Interface	WAN	1*10/100/1000/2500Mbps/10G, support 48V PoE			
	LAN	1*10/100/1000Mbps			
	Indicators	Front Panel – ·Red/·Green/·Blue: Power On: Red ON → System Start → Green ON & Red OFF→ Wi-Fi Active Thin AP – AC disconnected: Red ON & Green OFF & Blue ON AP Locator: Blue Flashes (1 time/second), Red & Green OFF			
	One-Key Reset	Press & Hold 6–10s → Factory Reset			
	Power	PoE 802.3bt / DC12V3A			
Max Power Consumption	<36W				
Weight	1.6kg				
Operating/Storage Temperature	-20℃～55℃/ -40℃～70℃				
Operating/Storage Humidity	10%～90%(non-condensing) / 5%～95%(non-condensing)				
Dimensions	304mm×181mm×88mm				
ESD	Air +/-8K , Contact +/-6K				
Surge protection	line to ground 2K , line to line 1K				
Certification	CCC; CE mark, commercial;CE/LVD EN60950; FCC Part 15 Class B;RoHS				
WiFi Specification					
Working Mode	Gateway Mode: The device connects to the WAN port and accesses the Internet via static IP, DHCP, or PPPoE.				
	Repeater Mode: In this mode, the device extends an existing wireless network to other clients or devices. It can also connect via Ethernet to another router to access the WAN.				

	AP Mode: The device provides wireless coverage for clients and devices, connecting via Ethernet to a router to access the WAN.
Wireless Functions	Multiple SSID functions: 2.4GHz: 4; 5.8GHz: 4.
	Support Watchdog/Reboot Scheduling
	Support SSID hidden
	Support seamless roaming
	Support 5G Prior for a faster Ethernet.
	Support unicode characters supported
	Wireless Security: Open, WPA, WPA2PSK_TKIPAES, WAP2_EAP, WPA3
	Protected Management Frames (PMF)
	Support MAC filter
	Support Wi-Fi time on/off to save energy
	Support client isolation to improve the wireless stability
	Support RF power adjustable, adjust the RF power based on environment.
Networking Function	VLAN settings
	Support gateway mode
Device Management	Back-up the configuration
	Restore the configuration
	Reset to factory default
	Reboot the device: including time reboot or reboot immediately
Software Functions	
Capacity	194 Users Maximum
Management mode	English/Chinese WEB remote management
Status	System/Wireless/Real-time traffic
Network	DHCP/Static IP/PPPoE
Wireless	Wireless switch, SSID, encryption, Password, Wireless multimedia, Isolation, Hidden
System	Device name, system upgrade, configuration restore, backup configuration, factory reset, reboot device.

Outer Case



Application



Packing List

CONTENT	QTY	UNIT
WiFi 7 Ceiling Mountable Tri-Band Access Point (with movable bracket on the back) EW-AP7900	1	pc
Ethernet Cable	1	pc
Screws& Plastic Expansion Plug	4	sets
User manual	1	pc