

DH-AWA6220-O

802.11ax Outdoor Wireless Access Point



- 802.11ax Outdoor Wireless Access Point.
- Internal Antennas 4 Streams Dual Radio and support External Antennas.
- Up to 2.4 Gbps access rate.
- Gigabit SFP optical port.
- IP68 waterproof and dustproof design.
- -30 °C to +55 °C wide temperature.
- Support DL/UL MU-MIMO and OFDMA.
- Maximum transmit power up to 24 dBm.
- Antenna gain up to 5 dBi.



System Overview

DH-AWA6220 series access point is the latest generation wireless access point developed based on 802.11ax standard. They are designed with creative dual-radio 802.11ax technology standard respectively, achieving a device rate of up to 2.4Gbit/s. This makes the series suitable for high-density access scenarios, such as hotel, retail stores and smart enterprise campus. It is compact in appearance and supports both wall mounting and ceiling mounting.

Scene

It suitable for high-density access scenarios, such as hotel, retail stores and smart enterprise campus.

Technical Specification

Hardware

Weight (excluding mounting accessories)	1.8 kg (3.97 lb)
Dimensions (excluding mounting and accessories)	250 mm x 250 mm x 79.5 mm (9.84" x 9.84" x 3.13") (L x W x H)
Ethernet Ports	2 x 100M/1000M Base-T RJ-45 1 x 100M/1000M Base-X SFP 1 x Console port (RJ-45)
Antenna	Internal directional antenna, antenna gain: 11 dBi@2.4G/11 dBi@5G/ Horizontal beamwidth (HBW): 65 degrees Vertical beamwidth (VBW): 30 degrees Support extended external antenna
Working Frequencies	802.11ax/ac/n/a: 5.725 GHz–5.850 GHz; 5.47 GHz–5.725 GHz; 5.15 GHz–5.35 GHz 802.11ax/b/g/n: 2.4 GHz–2.483 GHz
Modulation Mode	11b: DSS: CCK@5.5/11 Mbps, DQPSK@2 Mbps, DBPSK@1 Mbps 11a/g: OFDM: 64QAM@48/54 Mbps, 16QAM@24 Mbps, QPSK@12/18 Mbps, BPSK@6/9 Mbps 11n: MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM 11ac: MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM, 256QAM 11ax: MIMO-OFDM: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Maximum Transmit Power	2.4 GHz: 27 dBm 5 GHz: 24 dBm
Reset/Restoration To Factory Default	Yes
State LED	Alternating flashing mode, orange/green/blue for different working states, breathing mode
Environment	Outdoor
Working Temperature	-30 °C to 55 °C (-22 °F to 131 °F)
Storage Temperature	-40 °C to 70 °C (-40 °F to 158 °F)

Working Humidity	0%–100% (non-condensing)
Storage Humidity	0%–100% (non-condensing)
Protection Class	IP68
EMC	CE EMC, CE RED
MTBF	>500000H

Software specifications

Compliance	Compliant with 802.11a/b/g/n/ac/ax
Working Frequencies And MIMO	5 GHz 2 × 2: 2 MU-MIMO 1.2 Gbps 2.4 GHz, 2 × 2: 2 MU-MIMO 0.575 Gbps or 5 GHz (1) 2 × 2: 2 MU-MIMO 1.2 Gbps 5 GHz (2) 2 × 2: 2 MU-MIMO 1.2 Gbps dual 5G mode
Bandwidth	20 MHz/40 MHz/80 MHz
WLAN Basics	Maximum number of clients per radio: 512 Virtual APs: 32 Open system/shared key authentication Broadcast probe request acknowledge control Mixed connection for WPA, WPA2, WPA3 and Pre-RSNA users RTS/CTS CTS-to-self 802.11k and 802.11v smart roaming 802.11r fast transition roaming Advanced Traffic Management Restrict low rate/sticky terminals access Channel reuse Receiver sensitivity adjustment Automatic channel/power/bandwidth adjustment Hide SSID Hotspot 2.0
Security Policy	WEP-64/128/152bit, dynamic WEP, TKIP, AES, EAP, CCMP, WPA3, OWE Multiple encryption key triggered dynamic unicast/multicast key update Support 802.11i 802.1X authentication, MAC authentication, PSK authentication, Portal authentication, PPSK Layer 2 user isolation SSID-based user isolation Packet filtering MAC address filtering Broadcast storm suppression Wireless EAD SSID and VLAN binding WIDS/WIPS Rogue device detection and countermeasure Dynamic ARP Inspection IP Source Guard (IPSG) Management frame protection (802.11w)
AAA	RADIUS client Multiple-domain authentication server Backup authentication server
Layer 2 And Layer 3 Features	IP address configuration :Static IP (available only in fat AP mode)/DHCP assigned IP (Option 60) IPv6: Native IPv6/IPv6 Portal/IPv6 SAVI ACL: IPv4/IPv6 Local forwarding based on SSID and VLAN Link Layer Discovery Protocol (LLDP) SSID-based VLAN assignment EoGRE Tunnel Multicast:IGMP Snooping/MLD Snooping

QoS	802.11e :Wi-Fi Multimedia (WMM) 802.1p priority and marking on Ethernet ports Priority mapping for wired and wireless connection SSID/VLAN and QoS policy mapping Layer 2 to Layer 4 packet filtering and traffic classification CAR User bandwidth management Load balancing Multicast enhancement:Multicast to Unicast (IPv4, IPv6) Call Admission Control (CAC) Airtime optimization Airtime fairness Layer 4-7 application identification SVP Phone
Management and Maintenance	AP Working Mode : Fit/Fat Network management:Trap, HTTP(S), SSH, Telnet, FTP/TFTP, SNMP V1/V2/V3 only applicable in Fat mode Management SSID Syslog Remote probe analysis

Dimensions (mm[inch])

