DH-AWA6220-C

802.11ax Indoor Wireless Access Point

- 802.11ax Indoor Wireless Access Point.
- Internal Antennas 4 Streams Dual Radio.
- Up to 1.775 Gbps access rate.
- DL/UL MU-MIMO.
- OFDMA.
- RF Optimizing Engine.
- Maximum transmit power up to 20 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 1.775Gbit/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)	0.4 kg (0.88 lb)
Dimensions (excluding mounting and accessories)	185 mm × 185 mm × 43 mm (7.28" × 7.28" × 1.69") (L × W × H)
Ethernet Ports	1× 100/1000M Base-T RJ-45
PoE	Port1: 802.3af
Local Power Supply	54 VDC
Antenna	Built-in omni-directional antenna 3 dBi antenna gain @2.4 GHz 5 dBi antenna gain @5 GHz
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	20 dBm
Reset/Restoration To Factory Default	Yes
State LED	Alternating flashing mode, orange/green/blue for different working states, breathing mode
Enviorment	Indoor
Working Temperature	–10 °C to 55 °C (14 °F to 131 °F)
Storage Temperature	–40 °C to 70 °C(–40 °F to +158 °F)
Working Humidity	5%–95% (non-condensing)

Storage Humidity	5%–95% (non-condensing)
Protection Class	IP41
EMC	CE EMC, CE RED
MTBF	>250000H

Software specifications

Compliance	Compliant with 802.11a/b/g/n/ac/ax
Working Frequencies And MIMO	2.4G 2*2 MIMO 0.575 Gbps 5G 2*2 MIMO 1.2 Gbps
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 Concurrent login of 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 Multiple triggering conditions for unicast and broadcast 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
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 packets SSID/VLAN and QoS policy mapping Layer 2 to Layer 4 packet filtering and traffic classification CAR Client bandwidth management Traffic-based load balancing Session-based load balancing Frequency-based load balancing (supports dual-band) Band navigation (5G priority) Multicast optimization (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 Probing and analysis

Dimensions (mm[inch])