**DZS**

# W550CA

## Advanced Dual-Band Access Point with WiFi 6

The first generation 802.11ax Access Point provides high-performance wireless connectivity of multimedia services with DZS leading-edge technologies.

### Features & Benefits

+ Dual-band 2.4GHz 2x2 802.11ax, 5GHz 2x2 802.11ax wireless

+ One WAN gigabit 10/100/1000M Ethernet interface

+ Three LAN gigabit multi-rate 10/100/1000M Ethernet interfaces

+ One USB 3.0 port

The DZS W550CA is an advanced Ethernet based Access Point (AP) with integrated Wi-Fi 6 802.11ax, able to support service provider requirements for high-speed data over wireless interfaces and whole-home coverage. The AP with dual-band 2.4GHz and 5GHz radios serves all residential wireless use cases, including whole-home wireless extensions using Wi-Fi Alliance EasyMesh R1 standard. With unique DZS's software management features, subscribers can enjoy hyper-connected multimedia services much easier, faster, and more reliably than ever before.

The DZS W550CA includes one 10/100/1000Base-T WAN port, three 10/100/1000Base-T ports, dual-band 2.4GHz and 5GHz wireless, and one USB compliant port. The AP supports wire-speed L2 bridging and L3 gateway features offering deployment of secure wireless networks.

# WiFi 6 Dual-Band Indoor AP
# W550CA

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## Service Scenario of W550CA

Designed exclusively for whole-home coverage, the W550CA is a wireless Access Point (AP) built to the 802.11ax wireless standard. The AP supports dual-band 2T2R concurrent 2.4GHz and 5GHz radios, Multi-User MIMO on downstream and upstream traffic, and EasyMesh R1. Software features allows users to easily connect and enjoy the full benefits of wireless services. The W550CA is an ideal solution for residential and office users to maximize their ability to deploy high-speed wireless networks.

The W550CA is located at a central point or multiple locations within a home or office and connects wirelessly or with Ethernet to a DZS Ethernet or Fiber Termination point. Multiple Wi-Fi clients including laptops and multi-media devices can be easily connected using Ethernet ports or wireless interfaces. Acting as either a Controller or an Agent the W550CA can support bridging and access functions using 5GHz and 2.4GHz frequency bands.

## Key Service Attributes

+ One 10/100/1000Base-T WAN Ethernet port, RJ45 supporting 1Gbps symmetrical services

+ Three 10/100/1000Base-T LAN Ethernet ports, RJ45

+ 2.4GHz 2x2 802.11ax, 20MHz and 40MHz channels

+ 5GHz 2x2 802.11ax, 20MHz, 40MHz and 80MHz channels

+ Downstream and Upstream MU-MIMO

+ EasyMesh R1

+ USB 3.0 port

+ TR-069 Management

## Product Specifications

### Hardware

+ Dimensions
  Width: 5.5" (140mm)
  Depth: 5.5" (140mm)
  Height: 3.4" (86mm)
+ 128MB Flash Memory
+ 256MB SDRAM
+ Ethernet WAN Interface
+ Stand-alone Controller or Agent

### Interfaces

+ WAN: 1 port 10/100/1000Base-T Ethernet port (RJ45)
+ LAN: 3 ports 10/100/1000 Base-T Ethernet ports (RJ45)
+ Wireless LAN: IEEE 802.11ax 2T2R compliant internal antennas
+ USB: 1 port USB3.0
+ Button: Power, RESET, WPS

### Wireless Radio

+ 2GHz 2x2 80211ax, DS/US MU-MIMO, 20MHz and 40MHz BW Channels
+ 5GHz 2x2 80211ax, DS/US MU-MIMO, 20MHz, 40MHz and 80MHz BW Channels
+ Up to 36 devices accessed simultaneously
+ Auto/manual channel selection
+ Multiple/hidden SSID
+ WLAN mapping to VLAN
+ Max client association count
+ Supports AP/Client Steering
+ Supports Easy Mesh R1
+ WDS
+ Security: WEP (64/128bit), WPA/WPA2/WPA-PSK/WPS2-PSK
+ MAC address authentication
+ RADIUS Client
+ 802.1x Authentication
+ UAPSD/WMM Power save

### Quality of Service

+ HW-based internal IEEE 802.1p (CoS)
+ 802.1Q(VLAN tag) QoS mapping ToS/CoS
+ 8 queues per port
+ Classified traffic can be tagged with VLAN ID and Ethernet Priority bit, and can be assigned to priority queues
+ Classify packets into different IEEE 802.1p priority queues according to DSCP values (RFC 2475)

### Software Features

+ IEEE802.1D and IEEE802.1Q
+ Support 2048 MAC learning addresses
+ MAC Filtering
+ IEEE 802.1d Bridging
+ IGMP Snooping

### IP Routing and Firewall

+ DHCP, Static-IP and PPPoE
+ NAT/NAPT
+ DNS Server/Client
+ DNS Proxy, Auto/Manual
+ DHCP Server
+ UPnP, plug and play
+ L2/L3/Fast RoamingServer
+ Port forwarding
+ DHCP Client/Option 60
+ DNS Client
+ NTP

### Environmental

+ Operating Temperature 32~104°F (0~+40°C) Commercial
+ Storage temperature -4~140°F (-20~60°C)
+ Operating humidity 20 to 90% (non-condensing)
+ Altitude: –200 to 10,000 feet (–61 to 3,048 m) above sea level

### Powering

+ DC power, +12 VDC nominal, 1.5A
+ Input power, 90-240VAC, 50/60Hz
+ Power consumption, ~11W maximum

### Management

+ CPE Manager Web UI
+ CLI over telnet
+ SNMP Client
+ TR-069, TR-104, TR-98
+ Syslog
+ LED indications for status

### Compliance

+ FCC Part 15 Class B
+ ICES-003 Class B
+ CE Mark
+ Safety ETL/Intertek
+ IEC 62368-1, UL 62368-1, EN 62368-1
+ RoHS 2015/863/E

# Ordering Information

| Bases | |
|---|---|
| W550CA | Stand-alone Access Point, Controller or Client |
| | 1 x Port 10/100/1000Base-T WAN interface |
| | 3 x Ports 10/100/1000Base-T LAN interfaces |
| | 2.4GHz 2x2 802.11ax, 5GHz 2x2 802.11ax |
| | 1 x USB 3.0 |
| | 1x 2-pin Power |
| DPW-W550CA-NA | North America |
| DPW- W550CA-EU | EU |
| DPW- W550CA-UK | UK |