

XV2-22H Wi-Fi 6 Wall Plate Access Point

802.11ax, Dual-radio, 2x2, with Multi-Function Ethernet Ports

QUICK LOOK:

Cambium Networks Wi-Fi 6 wall plate access points (AP) put personal Wi-Fi in the room where people and devices connect. Designed for discreet installation on a flat wall surface or over a wiring box.

- **Wallplate 802.11ax, 2x2**
- **3 x GbE Ethernet, one with PoE out**
- **RJ45 electrical pass-through ports**
- **BLE/Zigbee/Thread/Matter**
- **Limited Lifetime Warranty**



Cloud-Managed Access

All Wi-Fi 6 access points are managed by cnMaestro from the cloud, an on-premises VM or a private datacenter. cnMaestro provides single-pane-of-glass dashboard for Wi-Fi, Ethernet, fixed wireless broadband and service provider home routers.

- **Zero-touch onboarding**
- **Inventory reports, mass configuration and upgrade**
- **Dashboard views with alarms and key performance metrics**
- **Remote troubleshooting tools**
- **Hierarchical device organization**
- **Cloud managed guest portal with social login, vouchers, rate, time and throughput limits**

cnMaestro Essential cloud management is included at no additional cost. There are no setup fees, licenses or recurring costs. cnMaestro includes detailed network statistics, channel utilization graphs, and integrated remote troubleshooting tools to ensure service is always on. Wall plate AP's are ideal for hotels, dormitory housing, MDU, and micro-cell Wi-Fi where fast installation and discreet aesthetics are desired.

Do-Not-Disturb Hotel Design

Hotel guests connect to Wi-Fi before turning on the TV. Wi-Fi is a must-have to stay connected with coworkers, family and social media. With the XV2-22H wall plate AP, the guest will be delighted with a perfect connection to all their devices. Customize the cloud-managed guest access with a fully configurable cloud portal with templates, point and click interface, or HTML CSS.

Designed for fast installation

XV2-22H install quickly over a standard wiring box, or to other boxes and surfaces using the optional mounting adapters. XV2-22H has three gigabit Ethernet ports. All ports support 802.1Q VLANs, IGMP, switched virtual interface layer 3 routing, DHCP, and firewall. Deliver 10 watts of operating power to an external device such as a VoIP phone, an in-room IoT hub or even another AP. VLAN and IP segmentation allows secure connections to a TV set-top box, laptop, printer, or any networked device.

IoT Ready

Integrated 802.15.4 multi-functional radio supports either BLE, Zigbee, or Thread. Easily integrate with popular Zigbee based door access control systems or temperature control or enable BLE for close point of presence location services.

XV2-22H Wi-Fi 6 Indoor Wall Plate Access Point

Access Point Specifications

US-FCC	Ch 1–11, 36–64, 100–144, 149–165
ISED Canada	Ch 1–11, 36–64, 100–116, 149–165
EU-ETSI	Ch 1–13, 36–64, 100–140
ROW	Ch 1–13, 36–64, 100–144, 149–173
	<i>Individual country limits apply. Please contact sales for country specific regulations .</i>

Radios	1 x 5 GHz radio (802.11ax Wi-Fi 6), 2x2:2 1 x 2.4 GHz 802.11ax Wi-Fi 6), 2x2:2 1 x 802.15.4 or 1 x 802.15.1 IoT transceiver, multi-protocol SU-MIMO / MU-MIMO: 2 streams
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Wi-Fi	802.11 ax Wi-Fi 6
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SSID Security	WPA3-SAE, WPA3-Enterprise, WPA2 (802.11i), WPA2 AES, WPA2 Enterprise (802.1x/EAP), WPA PSK, Open
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Max PHY Rate	2.4 GHz radio: 574 Mbps 5 GHz radio: 2402 Mbps
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Ethernet	1 x GE WAN 2 x GE LAN PoE out (up to 10W)
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USB port	No
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Antenna	Internal omni-directional 2.4 GHz: 4.47 dBi 5 GHz: 5.56 dBi IoT Antenna Gain: 5.18 dBi
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Max EIRP	2.4 GHz: 30 dBm 5 GHz: 28 dBm (EIRP limited by country regulations)
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WLAN	16 WLAN profiles per radio 128 clients per radio
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Power	802.3af or 802.3at powered device Typical load, no power out: 10W Typical load, with 10W power out: 20W
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MTBF	511k hours at 25°C; 121.79k hours 45°C
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Dimensions	160 mm x 105 mm x 32 mm (6.3 in x 4.1 in x 1.26 in)
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Weight	417 g (0.92 lb)
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Security	Kensington lock slot, secure bracket
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LEDs	Tri-color status LEDs
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Ambient Operation Temperature	0°C to 40°C (32°F to 104°F)
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Storage Temperature	-40°C to 70°C (-40°C to 158°F)
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Humidity	95% RH non-condensing
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Certifications (compliance)	802.11u, HotSpot 2.0, Passpoint 3.0, 802.11 a/b/e/g/i/k/n/r/u/v/w/ac/ax, PP2.0 FCC, IC, ETSI, CE, EN 60601-1-2, IEC60950
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Network Specifications

Authentication Encryption	802.1x EAP-SIM/AKA/AKA'/FAST, EAP-PEAP, EAP-TTLS, EAP-TLS/MSCHAPv2, PEAPv0/PEAPv1 MAC authentication to local database (on AP, on Controller) or external RADIUS. MAC auth fallback to guest portal
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Scheduled WLAN On/off by day, week, time of day

APIs	RESTful management and statistics API Presence location API Webhooks
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QoS 802.11e/WMM QoS. DSCP/ToS mapping

VLAN 802.11Q, max 4096

Fast Roaming 802.11r, OKC, cnMaestro assisted roam

Sticky Client Enhanced roaming with thresholds

Mesh Multi-hop (2), either band

Channel Selection Auto RF: Manual, or automatic

Network NAT, NAT logging firewall, DOS protection, L2/L3/DNS ACL, DHCP server, DHCP Relay option 82
LLDP, IGMP v1, v2
VLAN Pooling, RADIUS attribute VID
VLAN per SSID, per user
Integrated WIDS (wireless intrusion detection)

Band Steer Load Balance Yes

Tunnel L2TPv2, L2GRE, PPPoE

Network and RF Management Tools Out-of-band RF spectrum analysis, RF monitor with channel/noise/interference, wired and wireless remote packet capture, ZapD performance tool, rogue AP detection

Management

Interfaces HTTP / HTTPS web interface, SSH, Telnet
SNMP V1, V2, V3
Syslog, SNMP traps, NTP

Deployment cnMaestro Cloud, cnMaestro on-premises, XMS-Cloud, Standalone AP

Services Monetized guest portal with design tools

Hotspot 2.0 802.11u, HotSpot 2.0

Accounting RADIUS accounting, load balancing AAA servers, Dynamic Authorization COA, DM

Service Availability Critical network resource monitor with SSID shutdown

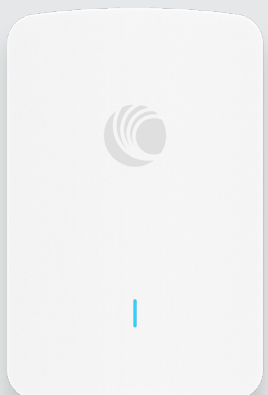
Captive Portal **Portal features hosted on cnMaestro:**
Design templates, customization tools
supports 3rd party external portal
RADIUS/LDAP/Click Through authentication
Active Directory, Google, Facebook, Office 365, OAuth 2.0
Data Rate/Throughput limits, Time duration

Portal features hosted on the AP:
supports 3rd party external portal
RADIUS/LDAP/Click Through authentication
Data Rate/Throughput limits, Time duration

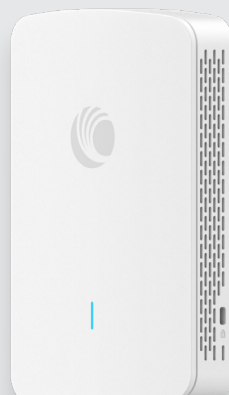
Standards

Wi-Fi Protocols	VHT MCS rates, 16/64/256/1024-QAM, 20/40/80/160 MHz
	TWT, Long OFDM Symbol, Transmit beamforming, Airtime Fairness, AMSDU, AMPDU, RIFS, STBC, LDPC, MIMO Power Save, MRC, BPSK, QPSK, CCK, DSSS, OFDM, OFDMA, UL/DL MU-MIMO
	IEEE 802.11 a/ac/ax/b/d/e/g/h/i/k/n/r/u/v

XV2-22H Wi-Fi 6 Indoor Wall Plate Access Point



Front Panel



Front Oblique



Back Panel



Bottom / Ports



Side Panel

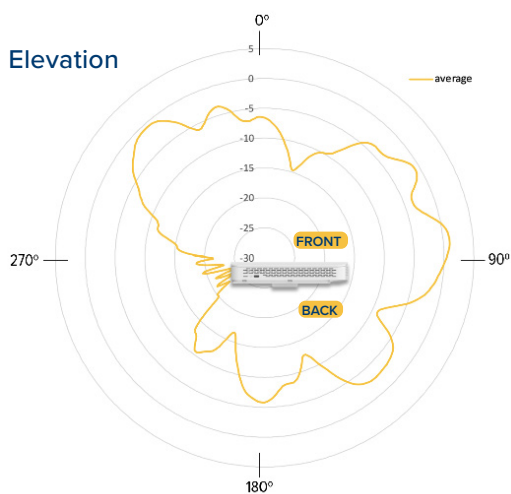


Front / Side/ Bottom
Oblique

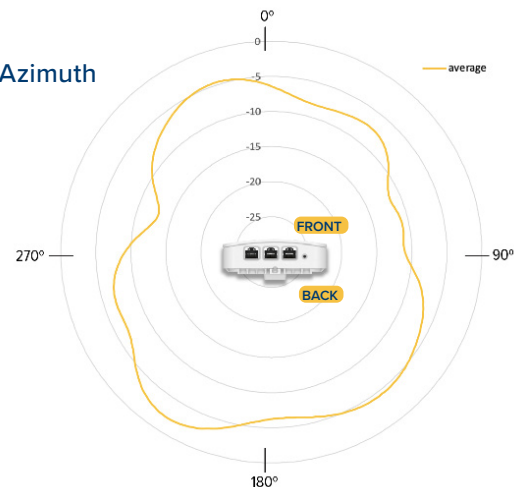
XV2-22H Wi-Fi 6 Indoor Wall Plate Access Point

Antenna Patterns

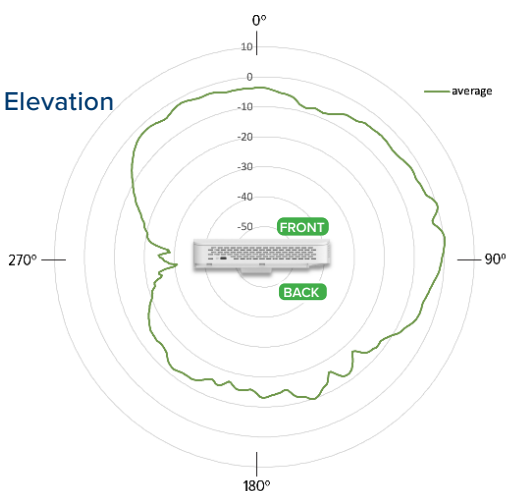
2.4 GHz Elevation



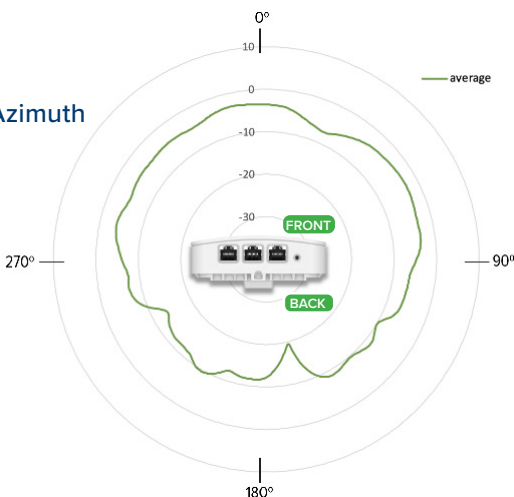
2.4 GHz Azimuth



5 GHz Elevation



5 GHz Azimuth



2.4 GHz Receive Sensitivity (dBm) Per Chain

HT20	HT40
MCS0 -97	MCS0 -94
MCS7 -78	MCS7 -75.25
HE20	HE40
MCS0 -96.5	MCS0 -94
MCS7 -77.5	MCS7 -74.5

2.4 GHz TX Power Target

Rate	Pout (dBm)
MCS0 HT20	26
MCS7 HT20	23
MCS8 VHT20	23
MCS9 VHT40	22
MCS11 HE40	21

5 GHz Receive Sensitivity (dBm) Per Chain

VHT20	VHT40	VHT80	VHT160
MCS0 -94.5	MCS0 -91.5	MCS0 -88.5	MCS0 -85.5
MCS7 -76	MCS7 -73	MCS7 -69	MCS7 -66.5
HE20	HE40	HE80	HE160
MCS0 -94.5	MCS0 -91.5	MCS0 -88.25	MCS11 -63
MCS7 -75	MCS7 -72.5	MCS7 -69	MCS8 -55

5 GHz TX Power Target

Rate	Pout (dBm)
MCS0 VHT20	23
MCS7 VHT20	18
MCS0 VHT40, VHT80	22, 21
MCS7 VHT40, VHT80	18, 17
MCS11, HE20, HE40, HE80, HE160	16, 15, 15, 14

XV2-22H Wi-Fi 6 Indoor Wall Plate Access Point

Ordering Information

XV2-22H00A00-RW	XV2-22H Wi-Fi 6 Wall Plate Access Point, dual-radio, 2x2, 3 x GbE, 48V PoE, BLE/Zigbee/Thread
XV2-22H00A00-US	XV2-22H Wi-Fi 6 Wall Plate Access Point, dual-radio, 2x2, 3 x GbE, 48V PoE, BLE/Zigbee/Thread
XV2-22H00A00-CA	XV2-22H Wi-Fi 6 Wall Plate Access Point, dual-radio, 2x2, 3 x GbE, 48V PoE, BLE/Zigbee/Thread
XV2-22H00A00-EU	XV2-22H Wi-Fi 6 Wall Plate Access Point, dual-radio, 2x2, 3 x GbE, 48V PoE, BLE/Zigbee/Thread
N000000L142A	PoE injector, 60W, 5 GbE, Indoor, Energy Level 6 Supply
N000000L034B	PoE, 30.5W, 56V, GbE DC Injector, Indoor, Energy Level 6 Supply, accepts C5 connector
N000900L017A	PoE, 15.4W, 56V, GbE DC Injector, Indoor, Energy Level 6 Supply, accepts C5 connector
PL-DTSTANDB-WW	Desktop stand
PL-WALLMNTB-WW	Mounting Adapter, mounts XV2-22H to a flush surface
PL-SNWLGNGB-WW	Wall bracket single gang junction box

cnMaestro X Ordering Information

MSX-SUB-XV2-22H-1	cnMaestro X for one XV2-22H AP. Creates one Device Tier 3 slot. Includes Cambium Care Pro support. 1-year subscription
MSX-SUB-XV2-22H-3	cnMaestro X for one XV2-22H AP. Creates one Device Tier 3 slot. Includes Cambium Care Pro support. 3-year subscription
MSX-SUB-XV2-22H-5	cnMaestro X for one XV2-22H AP. Creates one Device Tier 3 slot. Includes Cambium Care Pro support. 5-year subscription

XMS and Easy Pass Ordering Information

XMSC-SUB-2R-1	XMS-Cloud 1-year subscription: 2-radio AP with EasyPass Guest Self-Registration and Guest Ambassador modules and Cambium Care Advanced Support
XMSC-SUB-2R-3	XMS-Cloud 3-year subscription: 2-radio AP with EasyPass Guest Self-Registration and Guest Ambassador modules and Cambium Care Advanced Support
XMSC-SUB-2R-5	XMS-Cloud 5-year subscription: 2-radio AP with EasyPass Guest Self-Registration and Guest Ambassador modules and Cambium Care Advanced Support
EASY-SUB-2R-1	EasyPass 1-year subscription for a 2-radio AP operating with XMS-Cloud or XMS-Enterprise
EASY-SUB-2R-3	EasyPass 3-year subscription for a 2-radio AP operating with XMS-Cloud or XMS-Enterprise
EASY-SUB-2R-5	EasyPass 5-year subscription for a 2-radio AP operating with XMS-Cloud or XMS-Enterprise

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Cambium Care Support Ordering Information

CCADV-SUP-XV2-22H-1	Cambium Care Advanced, 1-year support for one XV2-22H Wi-Fi 6/6E AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCADV-SUP-XV2-22H-3	Cambium Care Advanced, 3-year support for one XV2-22H Wi-Fi 6/6E AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCADV-SUP-XV2-22H-5	Cambium Care Advanced, 5-year support for one XV2-22H Wi-Fi 6/6E AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCPRO-SUP-XV2-22H-1	Cambium Care Pro, 1-year support for one XV2-22H Wi-Fi 6/6E AP. 24x7 TAC support and SW updates
CCPRO-SUP-XV2-22H-3	Cambium Care Pro, 3-year support for one XV2-22H Wi-Fi 6/6E AP. 24x7 TAC support and SW updates
CCPRO-SUP-XV2-22H-5	Cambium Care Pro, 5-year support for one XV2-22H Wi-Fi 6/6E AP. 24x7 TAC support and SW updates
CCADV-UPG-XV2-22H-1	Cambium Care Advanced Add-on to cnMaestro X, 1-year support for one XV2-22H. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-XV2-22H-3	Cambium Care Advanced Add-on to cnMaestro X, 3-year support for one XV2-22H. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-XV2-22H-5	Cambium Care Advanced Add-on to cnMaestro X, 5-year support for one XV2-22H. 24x7 TAC support, SW updates, and NBDS advance replacement for HW

LIMITED LIFETIME WARRANTY

Cambium Networks XV2-22H Wi-Fi 6 and are covered by a limited lifetime hardware warranty for a period of 5 years after point of sale.

ABOUT CAMBIUM NETWORKS

Cambium Networks empowers millions of people with wireless connectivity worldwide. Its wireless portfolio is used by commercial and government network operators as well as broadband service providers to connect people, places and things. With a single network architecture spanning fixed wireless and Wi-Fi, Cambium Networks enables operators to achieve maximum performance with minimal spectrum. End-to-end cloud management transforms networks into dynamic environments that evolve to meet changing needs with minimal physical human intervention. Cambium Networks empowers a growing ecosystem of partners who design and deliver gigabit wireless solutions that just work.