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.

- Wall plate 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

cnMaestro X is a simple, yet sophisticated cloud-first, next generation network management solution for Cambium Networks wireless and wired solutions. cnMaestro X offers elastic scalability and single-pane-of-glass management to deliver secure, end-to-end network and wireless lifecycle management with zero-touch provisioning, monitoring and troubleshooting capabilities. It simplifies operations and ongoing maintenance.

- Single console for your entire Cambium network – Wi-Fi, Switching, Fixed Wireless

- Simple and easy-to-navigate user interface for fast time-to-productivity

- Powerful troubleshooting tools for drill down and rapid problem resolution

- Flexible integration via APIs and Webhooks for third party extensibility and customization

- Includes Cambium Care Pro software support with 24x7 L2 engineer access and all software updates for cnMaestro and managed devices.

For more details visit:

cambiumnetworks.com/products/advanced-services/cnmaestro-x/

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.

cambiumnetworks.com

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Access Point Specifications

Note: Some features will be included on subsequent firmware releases.

US-FCC	Ch 1–11, 36–64, 100–144, 149–165		**Max EIRP**	**2.4 GHz:** 30 dBm **5 GHz:** 28 dBm *(EIRP limited by country regulations)*
ISED Canada	Ch 1–11, 36–64, 100–116, 149–165		**WLAN**	16 WLAN profiles per radio 128 clients per radio
EU-ETSI	Ch 1–13, 36–64, 100–140		**Power**	802.3af or 802.3at powered device Typical load, no power out: 10W Typical load, with 10W power out: 20W
ROW	Ch 1–13, 36–64, 100–144, 149–177			
	Individual country limits apply. Please contact sales for country specific regulations .		**MTBF**	3,648,451 hours @ 25ºC 2,125,972 hours @ 40ºC
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		**Dimensions**	160 mm x 105 mm x 32 mm (6.3 in x 4.1 in x 1.26 in)
			Weight	417 g (0.92 lb)
Wi-Fi	802.11 ax Wi-Fi 6		**Security**	Kensington lock slot, secure bracket
SSID Security	WPA3-SAE, WPA3-Enterprise, WPA2 (802.11i), WPA2 AES, WPA2 Enterprise (802.1x/EAP), WPA PSK, Open		**LEDs**	Tri-color status LEDs
			Ambient Operation Temperature	0ºC to 40ºC (32ºF to 104ºF)
Max PHY Rate	**2.4 GHz radio**: 574 Mbps **5 GHz radio:** 2402 Mbps		**Storage Temperature**	-40ºC to 70ºC (-40ºC to 158ºF)
Ethernet	1 x GE WAN 2 x GE LAN PoE out (up to 10W)		**Humidity**	95% RH non-condensing
USB port	No		**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, IEC62368
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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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
Scheduled WLAN	On/off by day, week, time of day
APIs	RESTful management and statistics API Presence location API Webhooks
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
IP	IPv4, IPv6

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
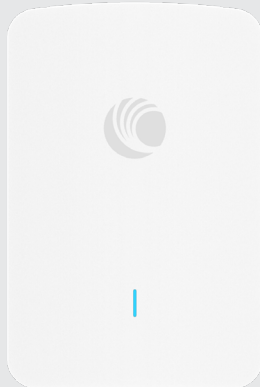
Front Panel

Front Oblique

Back Panel
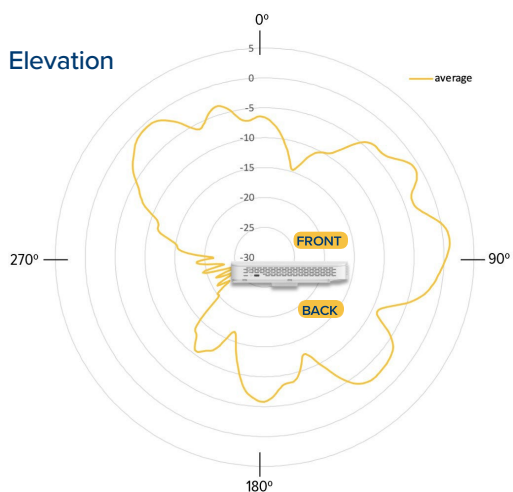

Bottom / Ports

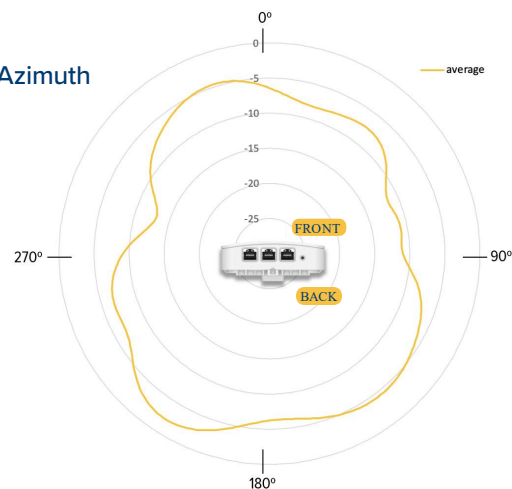Side Panel

Front / Side/ Bottom Oblique

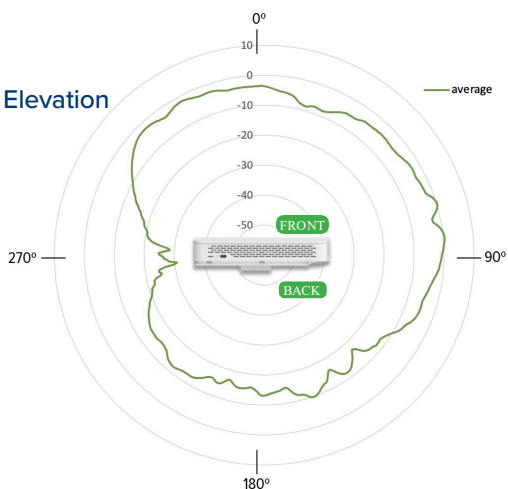# XV2-22H Wi-Fi 6 Indoor Wall Plate Access Point

Antenna Patterns

2.4 GHz Elevation

2.4 GHz Azimuth

5 GHz Elevation

5 GHz Azimuth
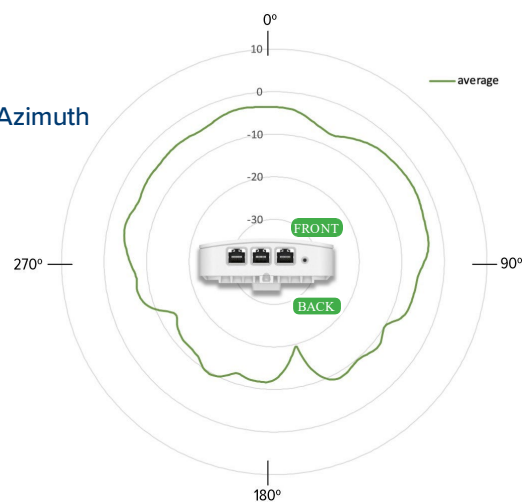
2.4 GHz Receive Sensitivity (dBm) Per Chain

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

XV2-22H Ordering Information

XV2-22H0A00-RW	XV2-22H Wi-Fi 6 Wall Plate Access Point, dual-radio, 2x2, 3 x GbE, 48V PoE, BLE/Zigbee/Thread
XV2-22H0A00-US	XV2-22H Wi-Fi 6 Wall Plate Access Point, dual-radio, 2x2, 3 x GbE, 48V PoE, BLE/Zigbee/Thread
XV2-22H0A00-CA	XV2-22H Wi-Fi 6 Wall Plate Access Point, dual-radio, 2x2, 3 x GbE, 48V PoE, BLE/Zigbee/Thread
XV2-22H0A00-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 EasyPass Ordering Information

XMSC-SUB-2R-1	XMS-Cloud 1-year subscription: 2-3 radio APs with EasyPass Guest Self-Registration and Guest Ambassador modules and Cambium Care Advanced Support
XMSC-SUB-2R-3	XMS-Cloud 3-year subscription: 2-3 radio APs with EasyPass Guest Self-Registration and Guest Ambassador modules and Cambium Care Advanced Support
XMSC-SUB-2R-5	XMS-Cloud 5-year subscription: 2-3 radio APs with EasyPass Guest Self-Registration and Guest Ambassador modules and Cambium Care Advanced Support
XMSC-EDU-SUB-2R-1	XMS-Cloud 1-year subscription for Education: 2 or 3-radio APs with EasyPass Guest Self-Registration and Guest Ambassador modules and Cambium Care Advanced Support
XMSC-EDU-SUB-2R-3	XMS-Cloud 3-year subscription for Education: 2 or 3-radio APs with EasyPass Guest Self-Registration and Guest Ambassador modules and Cambium Care Advanced Support
XMSC-EDU-SUB-2R-5	XMS-Cloud 5-year subscription for Education: 2 or 3-radio APs with EasyPass Guest Self-Registration and Guest Ambassador modules and Cambium Care Advanced Support
XMSC-MSP-SUB-2R-1	XMS-Cloud 1-year subscription for MSP: 2-radio AP with EasyPass Guest Self-Registration and Guest Ambassador modules and Cambium Care Advanced Support
XMSC-MSP-SUB-2R-3	XMS-Cloud 1-year subscription for MSP: 2-radio AP with EasyPass Guest Self-Registration and Guest Ambassador modules and Cambium Care Advanced Support
XMSC-MSP-SUB-2R-5	XMS-Cloud 1-year subscription for MSP: 2-radio AP with EasyPass Guest Self-Registration and Guest Ambassador modules and Cambium Care Advanced Support

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

XMS and EasyPass Ordering Information

EASY-SUB-2R-1	EasyPass 1-year subscription for a 2-3 radio APs operating with XMS-Cloud or XMS-Enterprise
EASY-SUB-2R-3	EasyPass 3-year subscription for a 2-3 radio APs operating with XMS-Cloud or XMS-Enterprise
EASY-SUB-2R-5	EasyPass 5-year subscription for a 2-3 radio APs operating with XMS-Cloud or XMS-Enterprise

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 WARRANTY

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

ABOUT CAMBIUM NETWORKS

Cambium Networks enables service providers, enterprises, industrial organizations, and governments to deliver exceptional digital experiences and device connectivity with compelling economics. Our ONE Network platform simplifies management of Cambium Networks' wired and wireless broadband and network edge technologies. Our customers can focus more resources on managing their business rather than the network. We make connectivity that just works.

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