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

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

XV2-22H 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





cnMaestro

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, Security/SD-WAN, Fixed Wireless, Fiber
- 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

Do-Not-Disturb Hotel Design

Many 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, guests will be delighted with a perfect connection to all their devices. Customize the cloud-managed guest access with a fully configurable cloud portal, point-and-click interface, or integration with third-party portals.

Designed for Fast Installation

Quickly install the XV2-22H over a standard wiring box or to other boxes and surfaces using the optional mounting adapters. The XV2-22H has 3 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

The 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.

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

Access Point Specifications

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	**Power**	802.3af or 802.3at powered device Typical load, no power out: 10W Typical load, with 10W power out: 20W
		Dimensions	160 mm x 105 mm x 32 mm (6.3 in x 4.1 in x 1.26 in)
Wi-Fi	802.11 a/b/g/n/ac/ax	**Weight**	417 g (0.92 lb)
SSID Security	WPA3-SAE (AES), WPA3-Enterprise, WPA2 (CCMP, AES, 802.11i), WPA2 Enterprise (802.1x/EAP), OSEN, OWE, Open	**Mount Options**	Standard wiring, junction, or other box
		Security	Kensington lock slot, secure bracket
Max PHY Rate	**5 GHz radio** 2402 Mbps **2.4 GHz** radio 573.5 Mbps	**Ambient Operation Temperature**	0°C to 40°C (32°F to 104°F)
Ports	1 x GE WAN 2 x GE LAN PoE out (up to 10W)	**Storage Temperature**	-40°C to 70°C (-40°C to 158°F)
		Humidity	95% RH non-condensing
USB port	No	**MTBF**	3,648,451 hours @ 25°C 2,125,972 hours @ 40°C
Antenna gain	Internal omni-directional **2.4 GHz:** 4.47 dBi **5 GHz:** 5.56 dBi **IoT Antenna Gain:** 5.18 dBi	**LEDs**	Multi-color status LEDs, dimmable, on/off
Max EIRP*	**2.4 GHz:** 30 dBm **5 GHz:** 28 dBm	**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

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, 149-173
ROW*	Ch 1–13, 36–64, 100–144, 149–177

*Individual country limits apply. Please contact sales for country-specific regulations. For Southeast Asia (SEA) countries, refer to the SEA Regulatory Details chart in this data sheet.

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/w

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Network Specifications

Operational Modes	Controller-less standalone cloud-managed cnMaestro, VM
WLAN	128 concurrent clients per radio, 256 per AP 16 SSID per AP
Security, Authentication Encryption	Open, WPA2-AES with PSK, ePSK and Enterprise WPA3 with PSK (WPA3-SAE), ePSK, Enterprise, Enterprise-CNSA, OWE (Enhanced Open) OSEN and PMF (802.11 W) MAC authentication with local database or external database using RADIUS protocol 802.1X with EAP-TTLS, EAP-TLS/ MSCHAPv2, PEAPv0/PEAPv1/EAP-PEAP/EAP-SIM/AKA/AKA'/FAST MAC auth fallback to guest portal Hotspot WEB authentication
Wi-Fi Quality of Service	802.11e/WMM (packet marking either with 802.1p or IP DSCP), WMM-PS, U-APSD Multicast to unicast conversion
Service Availability	Critical network resource monitor with SSID shutdown
Fast Roaming	802.11k/r/v, OKC, cnMaestro-assisted roam
Guest Access/ Captive Portal Service (EasyPass)*	cnMaestro-hosted EasyPass portal Multiple authentication methods supported to on-board guest user: • Radius-based authentication • Click-through with simple terms and conditions acceptance • Social login using Google®, Facebook® • SMS-based authentication (X) • Voucher-based access • Microsoft® Azure AD and Google • Workspace® (X) • Sponsored guest access (X) • Self-registration access (X) cnMaestro API support for external captive portal integration 802.11u, HotSpot 2.0
Accounting	RADIUS accounting, load balancing AAA servers, Dynamic Authorization COA, DM
API	RESTful management and statistics API via cnMaestro X, Presence location push APIs

RF Management	Multi-modal RF optimization supporting Auto-RF for dynamic channel selection and dynamic power adjustment configured via cnMaestro, performed in the intelligent edge AP RF monitor with channel utilization/packet error rate/interference
Band Steering	Yes
Mesh	Multi-hop (2), either band
Scheduled WLAN	On/off by day, week, time of day
Data Limit	Client bitrate/time/throughput limit per SSID
Network	TCP connection log, NAT logging firewall, DHCP server, DHCP Relay option 82, VLAN pooling, RADIUS attribute, VID VLAN per SSID per user, ePSK with VLAN assignment per PSK LLDP, IGMP v1, v2
Network Tools	Wired and wireless remote packet capture, logging, WAN speed test, ZapD, remote network connectivity tools
Tunnel	L2TPv2, L2GRE, PPPoE
IP	IPv4, IPv6
VLAN	802.11Q, max 4096
Management Interfaces	HTTP/HTTPS web interface, SSH, Telnet
Security	Rogue AP detection and termination (X), WIDs/WIPs, DoS protection L2–L7 firewall with application visibility (X) & control (X), DNS based access control (X) ACL and AirCleaner tools
Services	Wi-Fi Calling control, NTP, Syslog, DNS proxy, SNMP traps, SNMPv1, SNMPv2c, SNMPv3, TCP and DNS logging

* X Features available under cnMaestro X

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Management



cnMaestro uses a distributed intelligence architecture with cloud-first management and edge-intelligent APs that self-optimize for the RF environment. cnMaestro delivers a single pane-of-glass management for Cambium broadband fixed wireless, cnMatrix Ethernet Switches, enterprise-grade Wi-Fi APs, NSE Service Edge, and residential service provider routers.

cnMaestro can be deployed on cloud or on-premises via a virtual machine.

To serve a growing market for advanced management and services functionality, Cambium Networks offers cnMaestro in two management tiers:

cnMaestro X

Paid subscription that includes:

- Advanced device management capabilities
- Deep packet inspection (DPI) application visibility and Control for 2,400+ apps
- RESTful management and statistics API
- Presence location push APIs
- Graphic reports
- Webhooks
- Cambium Care Pro for 24x7 technical support
- Accelerated access to L2 engineers and regular software updates

Assists

- Assesses the network's configuration and identifies weak security settings and proposes a fix to ensure the network configuration is up to the top security industry standards

X Assurance

- Helps to quickly identify network-wide connectivity issues by isolating every element of the client's lifecycle, either radio or network related
- Gives an overview quality index of the network and highlights each element's contribution to easily identify the worst offender
- Provides insight of probable causes and proposes fixes for the administrator to apply
- Provides individual client connectivity visibility throughout the entire lifecycle of its connection to easily identify each connection's result and highlight the failure reason, should there be any

EasyPass Portal with Additional Options

- Self-registration: Form-based access
- Sponsored guest: Guest ambassador-based access
- Paid access: Monetize the Wi-Fi access
- Microsoft Azure: Corporate user login
- Google Login: Web login using Google accounts

cnMaestro Essentials

License-free cloud management that delivers a disruptive total cost of ownership (TCO) for organizations of all sizes. Includes EasyPass for OneClick or voucher-based connection as well as WiFi4EU access.

Find out more about cnMaestro

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

Front Panel



Front Oblique



Back Panel



Bottom/Ports



Side Panel

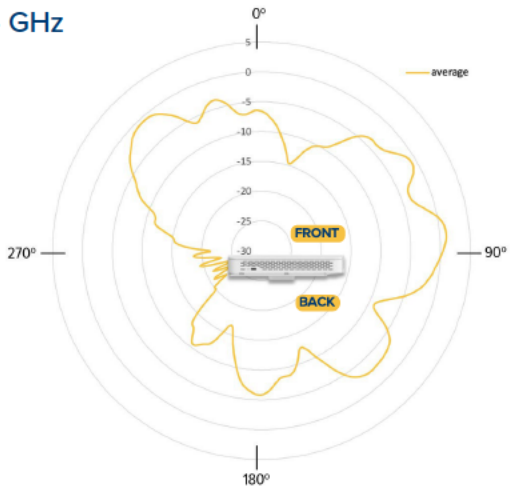


Front/Side/Bottom Oblique

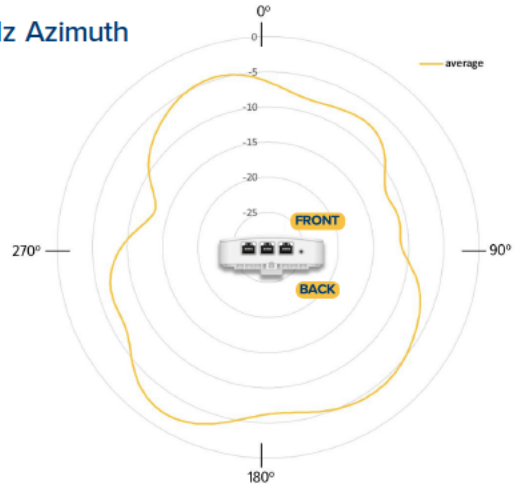
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Antenna Patterns

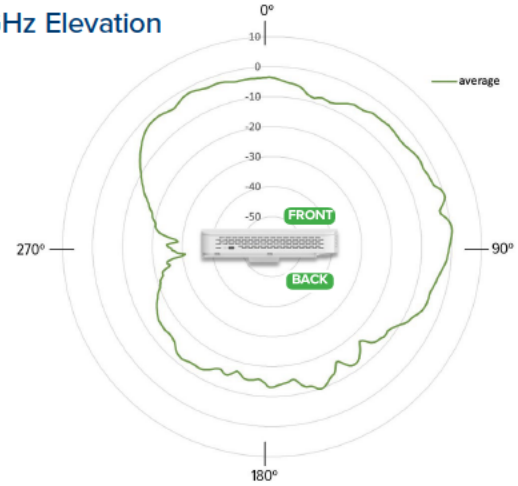
2.4 GHz



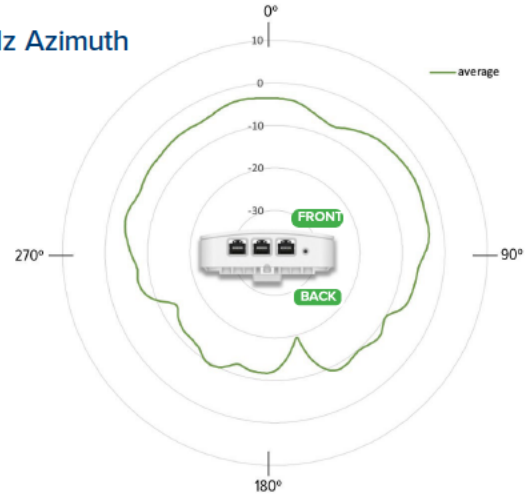
2.4 GHz Azimuth



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

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XV2-22H Ordering Information

Regulatory Model	XV2-22H
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
C000000L141A	PoE, 60W, 56V, 10GbE DC Injector, 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

Cambium Care Support

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

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EIRP is limited to the countries listed below.

SE Asia Regulatory Details					
	2.4 GHz (EIRP)	5 GHz (EIRP)			
Country	2400–2483.5 MHz	5150–5250 MHz	5250–5350 MHz	5470–5725 MHz	5725–5825 MHz
Indonesia	27 dBm (500mW) indoor 36 dBm (4W) outdoor	23 dBm (200mW) indoor	23 dBm (200mW) indoor	Not supported	23 dBm (200mW) indoor, 36 dBm (4W) outdoor
Vietnam	23 dBm (200mW)	23 dBm (200mW)	23 dBm (200mW)	30 dBm (1W)	30 dBm (1W)
Philippines	26 dBm (400mW)	26 dBm (400mW)	26 dBm (400mW)	26 dBm (400mW)	26 dBm (400mW)
Malaysia*	27 dBm (500mW)	30 dBm (1W) indoor 23 dBm (200mW) outdoor	30 dBm (1W) indoor	5470–5650 MHz 30 dBm (1W)	30 dBm (1W)
Singapore	23 dBm (200mW)	23 dBm (200mW)	23 dBm (200mW)	30 dBm (1W)	30 dBm (1W)
Thailand	20 dBm (100mW)	23 dBm (200mW)	23 dBm (200mW)	30 dBm (1W)	30 dBm (1W)

**Malaysia restricts the use of 5650 MHz–5725 MHz for regulatory reasons.*

LIMITED WARRANTY

Cambium Networks XV2-22H Wi-Fi 6 is covered by a limited lifetime 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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