XV2-2X Wi-Fi 6 Access Point

802.11ax Dual-Radio 2x2 Access Point

QUICK LOOK:

- Dual radios, 2x2

- 2.5 GbE uplink port, RJ45

- 1.77 Gbps aggregate data rate

- Application policy control

- EasyPass with Microsoft Azure and Google G Suite integration

Wi-Fi® CERTIFIED

WI-FI 6 DESIGNED FOR MOBILE DEVICES AND IoT

The XV2-2X is a dual-radio Wi-Fi 6 access point (AP) designed to deliver next generation networks with edge services at a value-based price. Wi-Fi 6 technology delivers higher network speeds and enables more connected devices at higher packet quality. Wi-Fi 6 brings a deterministic model to the radio frequency (RF) layer where the AP controls the client connections, including when to sleep, when to wake and how to transmit and receive packets. The XV2-2X is fully backward compatible with existing Wi-Fi technology and enables a massive growth of low power, low-bitrate IoT devices to add infrastructure intelligence into any market.

XV2-2X comes with Limited Lifetime Warranty providing return and repair service on the access point from date of purchase until end of life of the product.

CLOUD AND ON-PREMISES MANAGEMENT

XV2-2X is advancing enterprise network convergence by integrating edge-intelligent access points, all managed seamlessly through ther versatile cnMaestro™ management system, which is accessible both trough cloud-based and on-premises solutions. To cater to the increasing need for advanced management and service capabilities, cambium provides two distinct tiers of cnMaestro™:

XV2-2X WI-FI 6 ACCESS POINT

Access Point Specifications

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

FCC Ch 1–11, 36–48, 100–144, 149–165	
ISED Ch 1–11, 36–48, 100–116, 149–165	
ETSI Ch 1–13, 36–64, 100–140	
ROW (Individual country limits may apply) Ch 1–14, 36–64, 100–144, 149–173	

Radios	**5 GHz** 802.11 a/n/ac Wave 2/ax, 2x2 **2.4 GHz** 802.11 b/g/n/ax, 2x2
Wi-Fi	802.11 a/b/g/n/ac Wave 2/ax
SSID Security	WPA3, WPA2 (CCMP, AES, 802.11i), WPA2 Enterprise (802.1x/EAP), WPA PSK (TKIP), WEP, Open
Max PHY Rate	**5 GHz radio** 1,201 Mbps **2.4 GHz radio** 573.5Mbps
Ports	1 x IEEE 10/100/1000/2500 Mbps Auto sensing MDIX 1 x USB 2.0
Antenna	**5 GHz** 6 dBi, Omni **2.4 GHz** 5 dBi, Omni
Max EIRP	**5 GHz** 31 dBm **2.4 GHz** 29 dBm

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Power	Max power 21W, 802.3at powered device 15.4W (802.3af) operation with reduced function settings Typical 11W (USB disabled)
Dimensions	195 mm x 195 mm x 41.4 mm (7.67 in x 7.67 in x 1.63 in)
Weight	800 g (1.76 lbs)
Security	Kensington lock slot
LEDs	Multi-color status LEDs
Ambient Operation Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°F to 158°F)
Humidity	95% RH non-condensing
MTBF	4,514,013 hours at 25°C ambient 1,314,841 hours at 50°C ambient
Mount Options	Wall or ceiling, T-bar with included locking bracket, ceiling tile plate
Certifications (Compliance)	Wi-Fi Alliance 802.11 a/b/g/n/ac/ax,FCC, IC, CE, EN 60601-1-2, EN 60950-1, IEC 62368-1 Safety, EN 60601-1-2 Medical, EN 61000-4-2/3/5 Immunity, EN 50121-1 Railway EMC, EN 50121-4 Railway Immunity, IEC 61373 Railway Shock & Vibration, UL 2043 Plenum, EN 62311 Human Safety/RF Exposure, WEEE & RoHS
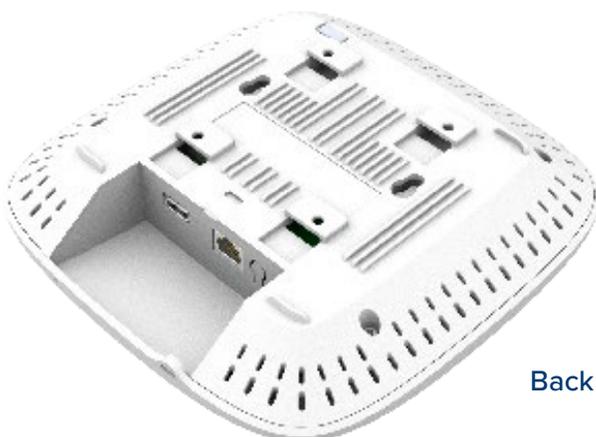
Back Panel

XV2-2X WI-FI 6 ACCESS POINT

Network Specifications

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

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Operational Modes	Standalone Cloud managed cnMaestro or VM	**RF Management**	Multimodal RF optimization supporting AutoCell performed in the intelligent edge AP. Out-of-band RF spectrum analysis, radio self test network assurance, RF monitor with chn/noise/interference Data rate pruning and minimum data rates
WLAN	1,024 concurrent clients per Access Point, 32 SSIDs (16 SSIDs per radio) WPA3, WPA3 SAE, WPA3 Enterprise, WPA-TKIP, WPA2 AES, 802.1x, 802.11w PMF	**Network**	TCP connection log, NAT logging firewall, DHCP server, L2, L3 or DNS based access control, VLAN Pooling, RADIUS attribute VID VLAN per SSID per user
Authentication Encryption	802.1x EAP-SIM/AKA, EAP-PEAP, EAP-TTLS, EAP-TLS MAC authentication to local database or external RADIUS	**Band Steer Load Balance**	Yes
Scheduled WLAN	On/off by day, week, time of day	**Tunnel**	L2TPv2, L2GRE, PPPoE
Guest Access	See "Captive Portal" section for additional details.	**Network and RF Management Tools**	Wired and wireles remote packet capture, ZapD performance tool, rogue AP detection
Data Limit	Client bitrate/time/throughput limit per SSID	**Services**	NTP, Syslog, SNMP traps, DNS proxy, auto-off on WAN failure
Subscriber QoS	WMM		
Fast Roaming	802.11r, OKC, cnMaestro assisted roam		
Sticky Client	Enhanced roaming with thresholds		
Mesh	Multi-hop, either band		
Channel Selection	Multimodal channel selection with AutoChannel and AutoBand. Granular control of off-channel scan and channel selection		

Standards

Wi-Fi Protocols	VHT MCS rates, 16/64/256/1024-QAM, 20/40/80 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

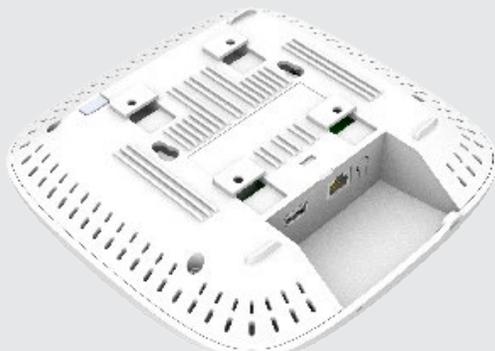# XV2-2X WI-FI 6 ACCESS POINT
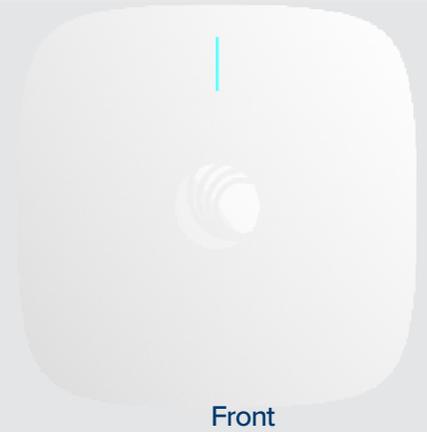
Front

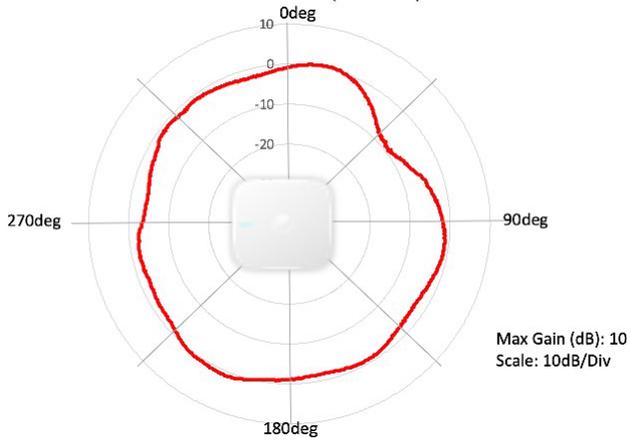Top View

Left Corner

Right Side

Oblique Back Panel

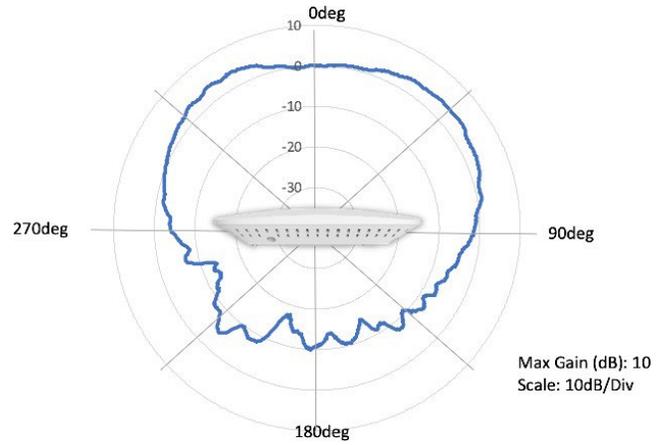Back Panel

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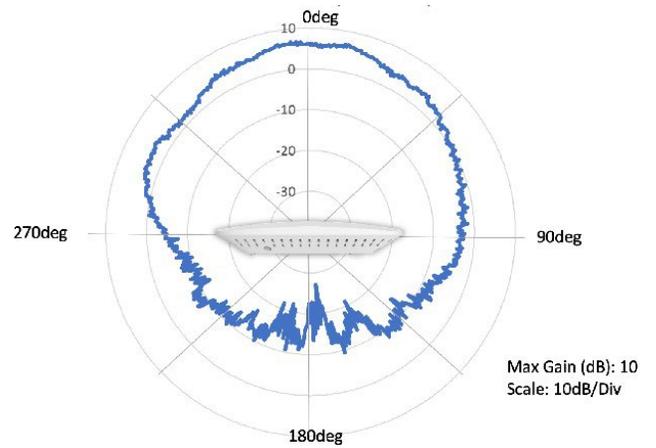
Antenna Patterns

2.4 GHz Azimuth

Max Gain (dB): 10
Scale: 10dB/Div

2.4 GHz Elevation

Max Gain (dB): 10
Scale: 10dB/Div

5 GHz Azimuth

Max Gain (dB): 10
Scale: 10dB/Div

5 GHz Elevation

Max Gain (dB): 10
Scale: 10dB/Div
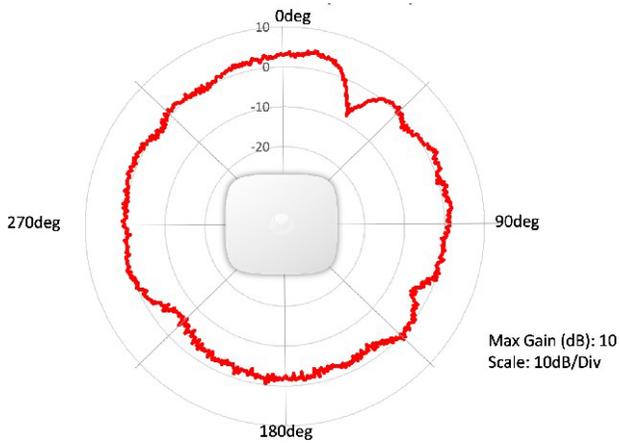
XV2-2X WI-FI 6 ACCESS POINT

Cambium Ordering Information

Regulatory Model	XV2-2X
XV2-2X00A00-US	XV2-2X Dual-Radio Wi-Fi 6. Indoor (FCC) SDR 802.11ax 2x2, US
XV2-2X00A00-CA	XV2-2X Dual-Radio Wi-Fi 6. Indoor (IC) 802.11ax 2x2, CA
XV2-2X00A00-EU	XV2-2X Dual-Radio Wi-Fi 6. Indoor (ETSI) 802.11ax 2x2, EU
XV2-2X00A00-RW	XV2-2X Dual-Radio Wi-Fi 6. Indoor 802.11ax 2x2, RW
AX-E510RBKT-WW	Shock mount bracket
N000000L142A	PoE, 60W, 56V, 5GbE DC Injector, Indoor, Energy Level 6 Supply, accepts C5 connector
N000900L031A	AC line cord, US Type B, 720 mm, C5 connector
N000900L032A	AC line cord, EU Type F angled, 720 mm, C5 connector
N000900L033A	AC line cord, UK Type G angled, 720 mm, C5 connector
N000900L034A	AC line cord, BR Type N, 720 mm, C5 connector
N000900L011A	AC line cord, AU Type I, 720 mm, C5 connector
N000900L012A	AC line cord, IN Type D angled, 720 mm, C5 connector
N000900L013A	AC line cord, AR Type I, 720 mm, C5 connector
N000900L015A	AC line cord, CN Type I, 720 mm, C5 connector
N000900L048A	AC line cord, ZA Type M angled, 720 mm, C5 connector

cnMaestro X Ordering Information

MSX-SUB-XV2-2-1	cnMaestro X for one XV2-2X AP. Creates one Device Tier3 slot. Includes Cambium Care Pro Support. 1 year subscription.
MSX-SUB-XV2-2-3	cnMaestro X for one XV2-2X AP. Creates one Device Tier3 slot. Includes Cambium Care Pro Support. 3 year subscription.
MSX-SUB-XV2-2-5	cnMaestro X for one XV2-2X AP. Creates one Device Tier3 slot. Includes Cambium Care Pro Support. 5 year subscription.
MSX-SUB-XV2-2-8	cnMaestro X for one XV2-2X AP. Creates one Device Tier3 slot. Includes Cambium Care Pro Support. 8 year subscription.

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XMS and Cambium Care Ordering Information

CCADV-SUP-XV2-2-1	Cambium Care Advanced, 1-year support for one XV2-2X Wi-Fi 6 AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCADV-SUP-XV2-2-3	Cambium Care Advanced, 3-year support for one XV2-2X Wi-Fi 6 AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCADV-SUP-XV2-2-5	Cambium Care Advanced, 5-year support for one XV2-2X Wi-Fi 6 AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCPRO-SUP-XV2-2-1	Cambium Care Pro, 1-year support for one XV2-2X Wi-Fi 6 AP. 24x7 TAC support and SW updates
CCPRO-SUP-XV2-2-3	Cambium Care Pro, 3-year support for one XV2-2X Wi-Fi 6 AP. 24x7 TAC support and SW updates
CCPRO-SUP-XV2-2-5	Cambium Care Pro, 5-year support for one XV2-2X Wi-Fi 6 AP. 24x7 TAC support and SW updates

LIMITED WARRANTY

Cambium Networks XV2-2X Wi-Fi 6 Access Point includes 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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