XV2-2 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 6 DESIGNED FOR MOBILE DEVICES AND IoT

The XV2-2 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 XV2-2 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.

XV2-2 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

XV2-2 continues the enterprise network convergence with edge-intelligent AP managed by application-intelligent Cambium Networks XMS or cnMaestro™ management system. Choose the management system that best fits your business and use the latest technology from Cambium Networks.

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Access Point Specifications

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

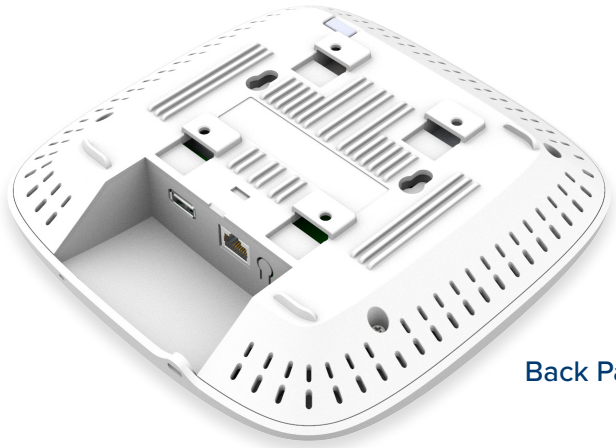
FCC Ch 1–11, 36–48, 100–144, 149–165

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 1 x Serial Console (4 pin)
Antenna	**5 GHz** 6 dBi, Omni **2.4 GHz** 5 dBi, Omni
Max EIRP	**5 GHz** 31 dBm **2.4 GHz** 29 dBm



Back Panel

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

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Management

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Cambium Networks XMS leverages intelligent APs with an embedded edge controller to deliver edge services at any network density. XMS management plane is a cloud-first technology with a simple and easy-to-use interface delivering application L7 policy-based control, EasyPass BYOD secure access, and an MSP dashboard with drag-and-drop design.

Cambium Networks 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 and service provider residential routers.

	XMS Management	cnMaestro Management
Deployment	Xirrus Management System (XMS-Cloud)	cnMaestro Cloud, cnMaestro on-premises, Standalone AP
Services	Deep Packet Inspection (DPI) Application Visibility and Control EasyPass Access Service	Monetized guest portal with design tools
APIs	RESTful management and statistics API Location API	RESTful management and statistics API Location API Webhooks
Captive Portal	Web page redirect, landing page, redirect to internal or external server, landing page and authentication Client isolation per SSID, per network Client rate limiting per SSID EasyPass, Guest Ambassador Click-through authentication Microsoft Azure and Google G Suite SSO integration	Hosted on cnMaestro or hosted on site AP Redirect to HTTP/RADIUS external portal/authentication Active Directory integration, Google, Facebook, Office 365 integration Data rate, time duration, data throughput limit Server DNS logging, Hotspot 2.0 Credit Card Merchant billing, ePSK, Vouchers
Accounting	RADIUS accounting, load balancing AAA servers, Dynamic Authorization COA, DM	

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Network Specifications

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

Operational Modes	Standalone Cloud managed cnMaestro or VM Cloud managed XMS
WLAN	512 clients, 32 SSIDs (16 SSIDs per radio) WPA3, WPA3 SAE, WPA3 Enterprise, WPA-TKIP, WPA2 AES, 802.1x, 802.11w PMF
Authentication Encryption	802.1x EAP-SIM/AKA, EAP-PEAP, EAP-TTLS, EAP-TLS MAC authentication to local database or external RADIUS
Scheduled WLAN	On/off by day, week, time of day
Guest Access	See “Captive Portal” section for additional details.
Data Limit	Client bitrate/time/throughput limit per SSID
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

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
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
Band Steer Load Balance	Yes
Tunnel	L2TPv2, L2GRE, PPPoE
Network and RF Management Tools	Wired and wireles remote packet capture, ZapD performance tool, rogue AP detection
Services	NTP, Syslog, SNMP traps, DNS proxy, auto-off on WAN failure

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