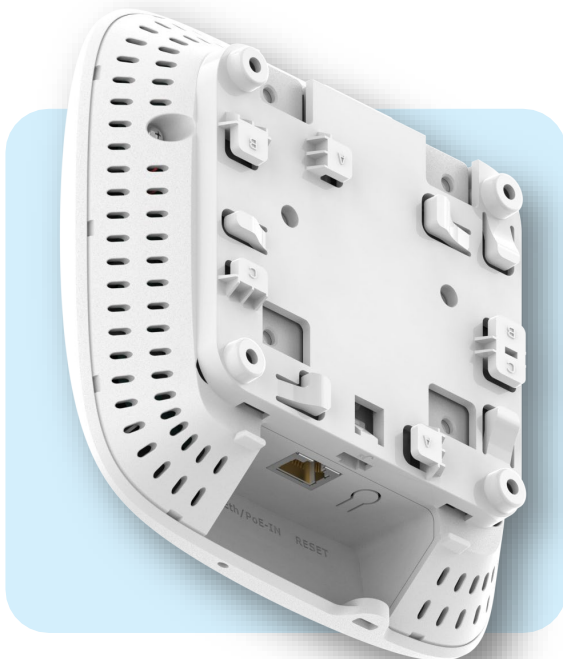


# XV2-21X Wi-Fi 6 Access Point

802.11ax Dual-Radio Indoor Access Point

## QUICK LOOK:

- Dual Radio Wi-Fi 6
- 5 GHz (2x2), 2.4 GHz (2x2)
- 1 GbE RJ45 interface
- Managed by cnMaestro™
- Limited lifetime warranty



Back panel with mounting bracket

### Value-Tier Wi-Fi for Any Market

Cambium Networks XV2-21X Wi-Fi 6 Indoor Access Point (AP) delivers a high performance-to-price ratio attractive to any market.

The XV2-21X can be adopted and managed by any of the Cambium management systems, including cnMaestro Essentials and cnMaestro X, available in cloud and on-premises versions. Choose the management type you need and change it at any time. Unlike other value-tier access points, the XV2-21X is never locked into just one management selection.

### Designed for Fast Installation

The XV2-21X offers multiple installation methods included in the same shipping box. Mount the AP to a ceiling tile using the included steel plate; mount to an existing junction box with 83mm center-to-center holes; twist lock the AP onto a 36mm, 24mm, and 14mm T-bar; or simply mount it to any flat surface using the included wall anchors. No accessory brackets are needed.

## XV2-21X 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. Please contact your regional sales manager for country-specific regulations. For Southeast Asia (SEA) countries, refer to the [SEA Regulatory Details](#) chart in this data sheet.*

**Note:** FCC, IC, EU DFS channels not supported in first release

**Radios**      **5 GHz** 802.11 a/n/ac Wave 2/ax, 2x2:2  
**2.4 GHz** 802.11 b/g/n/ax, 2x2:2

**Wi-Fi**        802.11 a/b/g/n/ac Wave 2/ax

**SSID Security**      WPA3-AES, WPA3-Enterprise, WPA2 (CCMP, AES, 802.11i), WPA2 Enterprise (802.1x/EAP), WEP, Open

**Max PHY Rate**      **5 GHz radio** 2402 Mbps  
**2.4 GHz radio** 573.5 Mbps

**Ports**         1 x IEEE 10/100/1000 Mbps

**Antenna**       **5 GHz** 6 dBi  
**2.4 GHz** 5 dBi

**Power**         Typical 11W, 802.3af powered device

**Dimensions**      155 mm x 155 mm x 37 mm  
 (6.1 in x 6.1 in x 1.46 in)

**With Bracket:**

155 x 155 x 46 mm  
 (6.1 x 6.1 x 1.81 in)

**Weight**         475g (1.05 lb)

**LEDs**           Multi-color status LEDs, dimmable, on/off

**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**            831,902 hours at 50°C ambient

**Mount Options**                              Wall or ceiling, T-bar with included locking bracket, ceiling tile plate

**Certifications (Compliance)**      Wi-Fi Alliance, Passpoint 3.0, 802.11 a/b/e/g/i/k/n/r/u/v/w/ac/ax, FCC, IC, ETSI, CE, EN 60601-1-2, IEC60950, IEC62368, UL2043, EN 61373

## XV2-21X Wi-Fi 6 Access Point

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

<b>Operational Modes</b>	Controller-less standalone Cloud-managed cnMaestro, VM	<b>RF Management</b>	Multi-modal RF optimization supporting AutoRF (cnMaestro) performed in the intelligent edge AP. Out-of-band RF spectrum analysis, RF monitor with chn/noise/interference.
<b>WLAN</b>	16 WLAN profiles per radio 128 clients per radio, 16 SSIDs, WPA-TKIP, WPA2 AES, 802.1x 802.11w PMF	<b>Network</b>	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
<b>Guest Access/Captive Portal</b>	cnMaestro, On-AP hosted guest portal Social login, voucher-based login, SMS gateway, payment gateway support. Supports radius-based authentication. cnMaestro API support for external captive portal integration.	<b>Band Steer Load Balance</b>	Yes
<b>Authentication Encryption</b>	Hotspot 2.0, 802.1x EAP-SIM/AKA, EAP-PEAP, EAP-TTLS, EAP-TLS, MAC Authentication local database or RADIUS	<b>Tunnel</b>	L2TPv2, L2GRE, PPPoE
<b>Scheduled WLAN</b>	On/off by day, week, time of day	<b>Network Tools</b>	Wired and wireless remote packet capture, logging, ZapD
<b>Data Limit</b>	Client bitrate/time/throughput limit per SSID	<b>Network and RF Management Tools</b>	Wired and wireless remote packet capture, ZapD performance tool, rogue AP detection
<b>Subscriber QoS</b>	WMM	<b>Services</b>	L2–L7 application visibility & control, Wi-Fi Calling control, WIDs/WIPs, NTP, Syslog, SNMP traps, DNS proxy, auto-off on WAN failure
<b>Fast Roaming</b>	802.11r, OKC, cnMaestro-assisted roam	<b>API</b>	RESTful management and statistics API Presence location APIs
<b>Mesh</b>	Multi-hop, either band	<b>IP</b>	IPv4, IPv6
<b>Channel Selection</b>	Multi-modal channel selection with AutoChannel and AutoTune (cnMaestro)		

### Standards

<b>Wi-Fi Protocols</b>	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

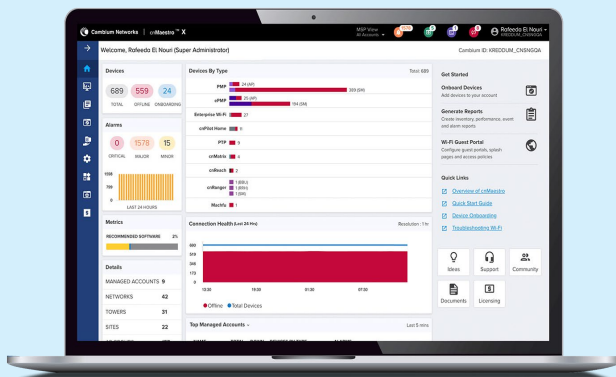
## XV2-21X Wi-Fi 6 Access Point

EIRP is limited to the countries listed below.

SE Asia Regulatory Details					
Country	2.4 GHz (EIRP)	5 GHz (EIRP)			
	2400–2483.5 MHz	5150–5250 MHz	5250–5350 MHz	5470–5725 MHz	5725–5825 MHz
Indonesia	27 dBm (500mW) indoor	23 dBm (200mW) indoor	23 dBm (200mW) indoor	Not supported	23 dBm (200mW) indoor,
	36 dBm (4W) outdoor				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	30 dBm (1W) indoor	5470–5650 MHz	30 dBm (1W)
		23 dBm (200mW) outdoor		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.

### Management



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

#### cnMaestro Essentials

License-free management that delivers a disruptive total cost of ownership (TCO) for organizations of all sizes.

#### cnMaestro X

Paid subscription that includes:

- Advanced device management capabilities
- Cambium Care Pro for 24x7 technical support
- Accelerated access to L2 engineers and regular software updates
- Upgrades for advanced features

Click for More Information

cnMaestro Essentials

cnMaestro X

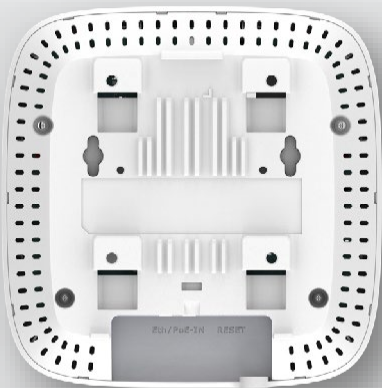
### XV2-21X Wi-Fi 6 Access Point



Front Panel



Front Oblique



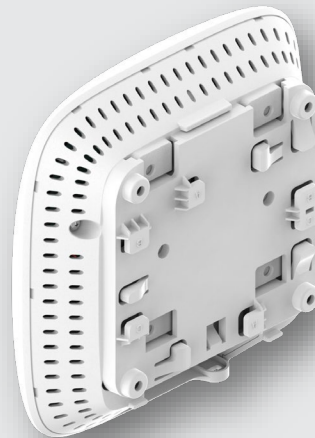
Back Panel



Bottom / Ports



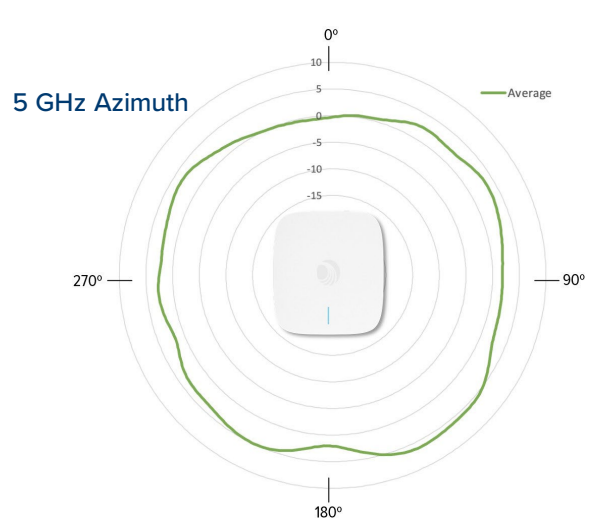
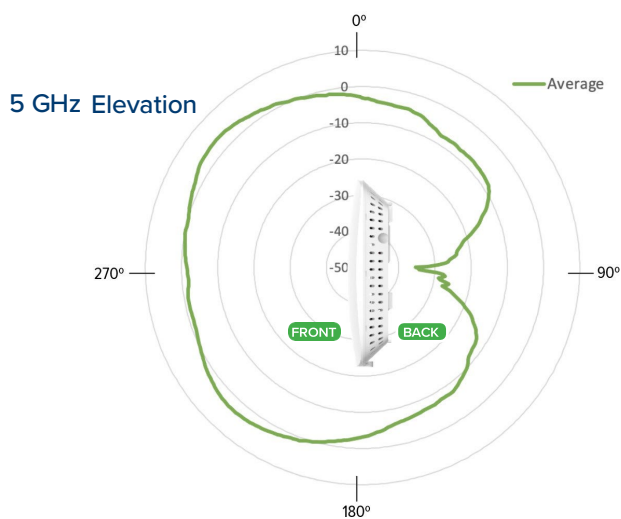
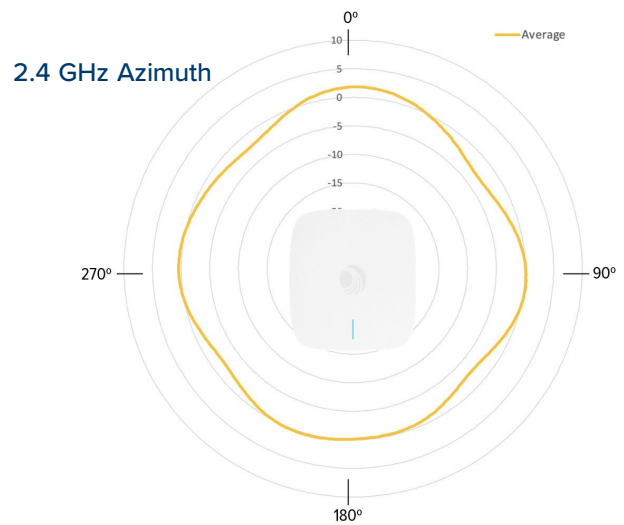
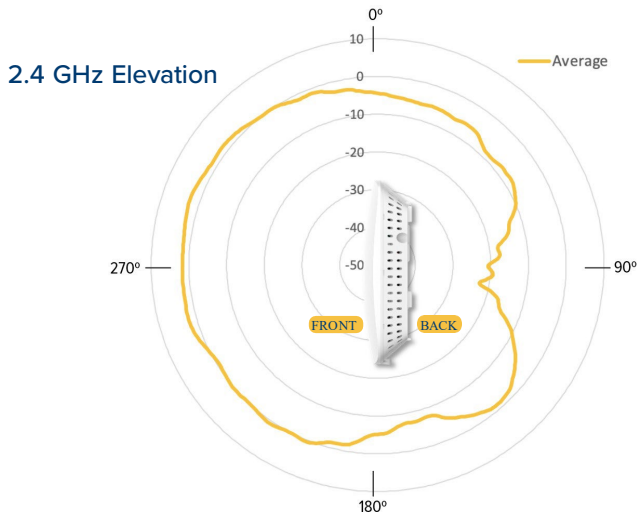
Front Panel with Mounting Bracket



Back Panel with Mounting Bracket

## XV2-21X Wi-Fi 6 Access Point

### Antenna Patterns



2.4 GHz Receive Sensitivity (dBm) per Chain			
HT20		HT40	
MCS0	-95.5	MCS0	-93
MCS7	-76.5	MCS7	-74
HE20		HE40	
MCS0	-95.5	MCS0	-92.5
MCS7	-76.5	MCS7	-73.5

2.4 GHz TX Power Target	
Rate	Pout (dBm)
MCS0 HT20	27
MCS7 HT20	25
MCS8 VHT20	25
MCS9 VHT40	24
MCS11 HE40	23

5 GHz Receive Sensitivity (dBm) per Chain			
VHT20	VHT40	VHT80	VHT160
MCS0	-95.5	MCS0	-94
MCS7	-77	MCS7	-74
MCS0	-90	MCS0	-87.5
MCS7	-71.5	MCS7	-69
HE20	HE40	HE80	HE160
MCS0	-95.5	MCS0	-93.5
MCS7	-76.5	MCS7	-74
MCS0	-90.5	MCS8	-65
MCS7	-71.5	MCS11	-57

5 GHz TX Power Target	
Rate	Pout (dBm)
MCS0 VHT20	27
MCS7 VHT20	24
MCS0 VHT40, VHT80	27, 27
MCS7 VHT40, VHT80	24, 24
MCS11, HE20, HE40, HE80, HE160	22, 22, 22, 21

## XV2-21X Wi-Fi 6 Access Point

### Cambium Ordering Information

**Regulatory Model** XV2-21X

**XV2-21X0A00-US** XV2-21X Indoor Dual radio WiFi 6 AP, 2x2, GbE, US

**XV2-21X0A00-EU** XV2-21X Indoor Dual radio WiFi 6 AP, 2x2, GbE, EU

**XV2-21X0A00-RW** XV2-21X Indoor Dual radio WiFi 6 AP, 2x2, GbE, RW

**XV2-21X0A00-CA** XV2-21X Indoor Dual radio WiFi 6 AP, 2x2, GbE, CA

**N000000L142A** 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

**XA-DROPTILE15** Recessed ceiling tile Installation Kit for 15mm T-bar, 20mm drop extension. 5 Pack

**XA-DROPTILE24** Recessed ceiling tile Installation Kit for 24mm T-bar, 20mm drop extension. 5 Pack

**AX-E510RBKT-WW** Shock mount bracket

### cnMaestro X Ordering Information

**MSX-SUB-XV2-21X-1** cnMaestro X for one XV2-21X AP. Creates one Device Tier 3 slot. Includes Cambium Care Pro support. 1-year subscription

**MSX-SUB-XV2-21X-3** cnMaestro X for one XV2-21X AP. Creates one Device Tier 3 slot. Includes Cambium Care Pro support. 3-year subscription

**MSX-SUB-XV2-21X-5** cnMaestro X for one XV2-21X AP. Creates one Device Tier 3 slot. Includes Cambium Care Pro support. 5-year subscription

## XV2-21X Wi-Fi 6 Access Point

### Cambium Care Ordering Information

<b>CCADV-SUP-XV2-21X-1</b>	Cambium Care Advanced, 1-year support for one XV2-21X Wi-Fi 6/6E AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
<b>CCADV-SUP-XV2-21X-3</b>	Cambium Care Advanced, 1-year support for one XV2-21X Wi-Fi 6/6E AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
<b>CCADV-SUP-XV2-21X-5</b>	Cambium Care Advanced, 3-year support for one XV2-21X Wi-Fi 6/6E AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
<b>CCPRO-SUP-XV2-21X-1</b>	Cambium Care Pro, 1-year support for one XV2-21X Wi-Fi 6/6E AP. 24x7 TAC support and SW updates
<b>CCPRO-SUP-XV2-21X-3</b>	Cambium Care Pro, 3-year support for one XV2-21X Wi-Fi 6/6E AP. 24x7 TAC support and SW updates
<b>CCPRO-SUP-XV2-21X-5</b>	Cambium Care Pro, 5-year support for one XV2-21X Wi-Fi 6/6E AP. 24x7 TAC support and SW updates
<b>CCADV-UPG-XV2-21X-1</b>	Cambium Care Advanced Add-on to cnMaestro X, 1-year support for one XV2-21X. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
<b>CCADV-UPG-XV2-21X-3</b>	Cambium Care Advanced Add-on to cnMaestro X, 3-year support for one XV2-21X. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
<b>CCADV-UPG-XV2-21X-5</b>	Cambium Care Advanced Add-on to cnMaestro X, 5-year support for one XV2-21X. 24x7 TAC support, SW updates, and NBDS advance replacement for HW

### LIMITED WARRANTY

Cambium Networks XV2-21X Wi-Fi 6 Access Point includes 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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