

# XV2-23T Wi-Fi 6 Outdoor Access Point

802.11ax Dual-Radio, 2x2

## XV2-23T Quick Look:

Value tier outdoor Wi-Fi 6 access point designed for cost-effective upgrade to the latest 802.11ax standard in Wi-Fi technology.

- Dual-radio Wi-Fi 6
- 5 GHz (2x2), 2.4 GHz (2x2)
- One 1 GbE uplink
- Outdoor rated IP67 enclosure
- cnMaestro™ Network Management



## Value-Tier Wi-Fi for Any Market

The Cambium Networks' XV2-23T Wi-Fi 6 Outdoor Access Point (AP) delivers a high performance-to-price ratio attractive to any market. The XV2-23T can be onboarded and managed by your choice of 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 XV2-23T is never locked into just one management selection.

## Designed for Fast Installation

The XV2-23T offers multiple installation methods included in the same shipping box. Mount the AP to a pole using the included clamps or to a flat surface using the integrated bracket. The XV2-23T is a compact size and high-performance outdoor Wi-Fi 6 AP.



## XV2-23T Wi-Fi 6 Outdoor Access Point

### Access Point Specifications

<b>Radios</b>	<b>5 GHz</b> 802.11 a/n/ac/ax, 2x2 <b>2.4 GHz</b> 802.11 b/g/n/ax, 2x2	<b>Power</b>	Typical 20W, 802.3at powered device
<b>Wi-Fi</b>	802.11 a/b/g/n/ac/ax	<b>Dimensions</b>	300 mm x 200 mm x 84 mm (11.8 in x 7.9 in x 3.3 in)
<b>SSID Security</b>	WPA3-SAE, WPA3-Enterprise, WPA2-PSK (CCMP, AES, 802.11i), WPA2-Enterprise (802.1X/EAP), OSEN, OWE, Open	<b>Weight</b>	1,200 g (2.65 lbs)
<b>Ports</b>	1 x IEEE 10/100/1000 Mbps Ethernet	<b>Security</b>	Kensington lock slot
<b>Antenna Gain</b>	<b>5 GHz</b> 10 dBi, Omni <b>2.4 GHz</b> 7 dBi, Omni	<b>Mount Options</b>	Pole or wall mounting. Pole diameter: min 30 mm / max 75 mm
<b>Max EIRP*</b>	<b>5 GHz</b> 36 dBm <b>2.4 GHz</b> 34 dBm	<b>Ambient Operation</b>	-40°C to 65°C (-40°F to 149°F)
<b>Max PHY Rate</b>	<b>5 GHz</b> radio 2,402 Mbps <b>2.4 GHz</b> radio 573.5 Mbps	<b>Temperature</b>	-40°C to 70°C (-40°F to 158°F)
<b>Filter LTE Band</b>	38, 40	<b>Storage</b>	-40°C to 70°C (-40°F to 158°F)
<b>FCC</b>	Ch 1–11, 36–48, 52–64, 100–144, 149–165	<b>Temperature</b>	-40°C to 95°C (-40°F to 203°F)
<b>ISED</b>	Ch 1–11, 36–48, 52–64, 100–116, 149–165	<b>Humidity</b>	95% RH non-condensing
<b>ETSI*</b>	Ch 1–13, 36–64, 52–64, 100–140, 149–173	<b>MTBF</b>	5,077,102 hours @ 25°C 1,224,983 hours @ 65°C
<b>ROW*</b>	Ch 1–14, 36–48, 52–64, 100–144, 149–177	<b>LEDs</b>	Multi-color status LEDs, dimmable, on/off
		<b>Certifications</b>	WiFi Alliance 802.11a/b/g/n/ac/ax, PP2.0 (compliance) FCC, CE, IC, IEC60950, IEC62368, EN50121, EN61373

\*Individual country limits may apply.

### Standards

<b>Wi-Fi Protocols</b>	VHT MCS rates, 16/64/256/1024-QAM, Channel width support in 5GHz: 20/40/80/160 MHz  Transmit Beam steering, AMSDU, AMPDU, RIFS, STBC, LDPC, MIMO Power Save, MRC, BPSK, QPSK, CCK, DSSS, OFDM, OFDMA, UL/DL MU-MIMO  IEEE 802.11a/ac/ax/b/d/e/g/h/i/k/n/r/u/v/w
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## XV2-23T Wi-Fi 6 Outdoor Access Point

Network Specifications	
<b>Operational Modes</b>	Controllerless standalone Cloud-managed cnMaestro or VM
<b>WLAN</b>	256 concurrent clients 16 SSIDs per AP
<b>Security, Authentication, Encryption</b>	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 Hotspot 2.0 WEB authentication
<b>Wi-Fi Quality of Service</b>	WMM (packet marking either with 802.1p or IP DSCP), WMM-PS, U-APSD Multicast to unicast conversion
<b>Service Availability</b>	Critical network resource monitor with SSID shutdown
<b>Fast Roaming</b>	802.11k/r/v, OKC, cnMaestro-assisted roam
<b>Guest Access/ Captive Portal Service (EasyPass)*</b>	cnMaestro-hosted EasyPass portal Multiple authentication methods supported to onboard guest user: <ul style="list-style-type: none"> <li>Radius-based authentication</li> <li>Click-through with simple terms and conditions acceptance</li> <li>Social login using Google®, Facebook®</li> <li>SMS-based authentication (X)</li> <li>Voucher-based access</li> <li>Microsoft® Azure AD and Google Workspace® (X)</li> <li>Sponsored guest access (X)</li> <li>Self-registration access (X)</li> </ul> cnMaestro API support for external captive portal integration 802.11u, Hotspot 2.0
<b>Accounting</b>	RADIUS accounting, load balancing AAA servers, Dynamic Authorization COA, DM
<b>API</b>	RESTful management and statistics API via cnMaestro X, presence location push APIs

\*X features available in cnMaestro X.

## XV2-23T Wi-Fi 6 Outdoor Access Point

### Management



#### 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

#### 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

**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:

#### 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

## XV2-23T Wi-Fi 6 Outdoor Access Point



Front



Back



Bottom

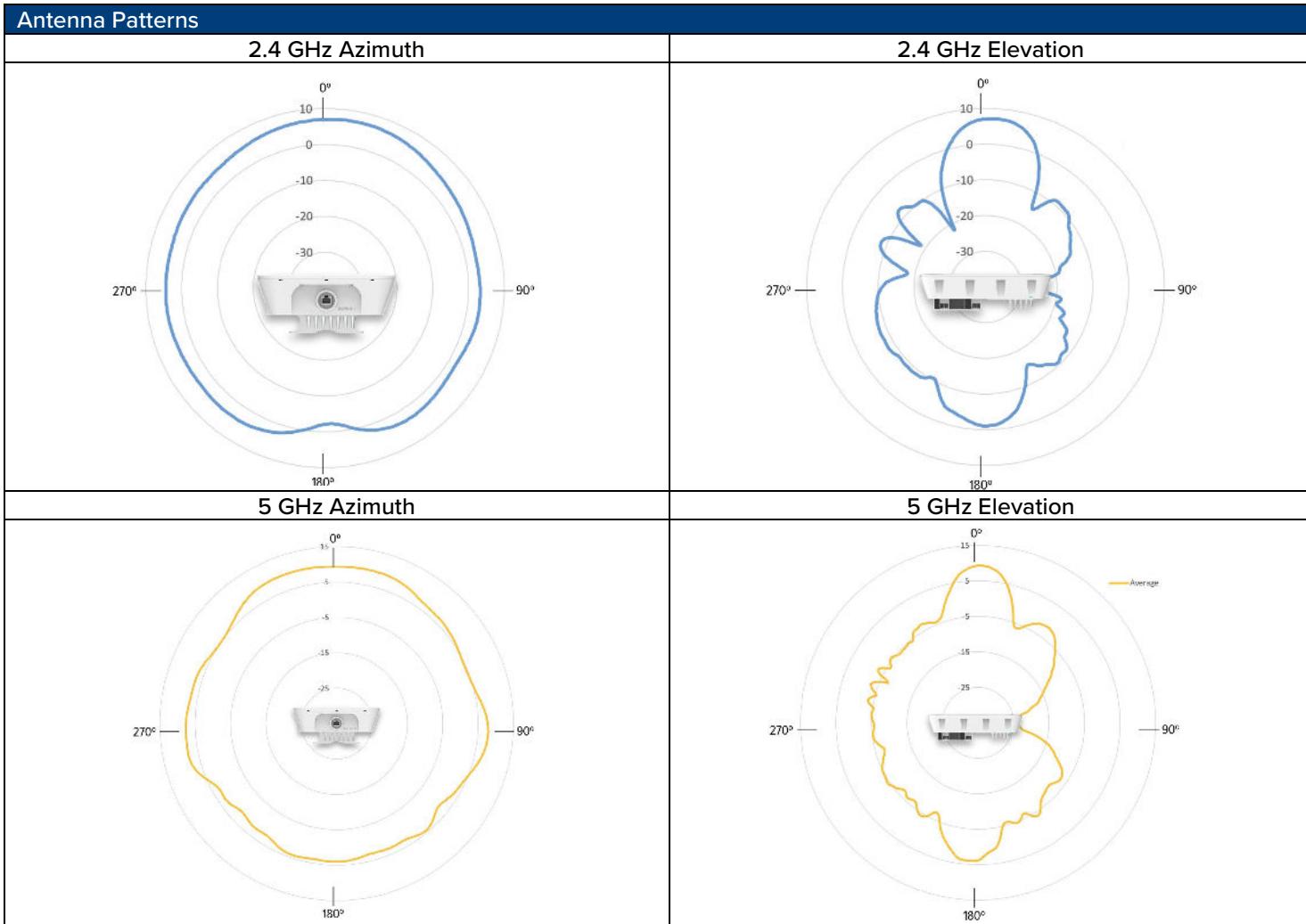


Side



Front Oblique

## XV2-23T Wi-Fi 6 Outdoor Access Point



2.4 GHz Receive Sensitivity (dBm) per Chain			
802.11b		802.11g	
1 Mb	-99	1 Mb	-94.5
11 Mb	-91	11 Mb	-75.75
<b>HT20</b>		<b>HT40</b>	
MCS0	-95	MCS0	-92.5
MCS7	-76.5	MCS7	-73.5
<b>HE20</b>		<b>HE40</b>	
MCS0	-94.75	MCS0	-92
MCS11	-64.25	MCS11	-61.25

2.4 GHz TX Power Target		
Rate	Pout (dBm)	
802.11b 1Mb	27	
802.11g 6Mb	27	
MCS0 HT20, HT40	27, 27	
MCS7 HT20, HT40	25, 25	
MCS0 VHT20, VHT40	27, 27	
MCS11 VHT20, VHT40	23, 23	
MCS0 HE20, HE40	27, 27	
MCS11 HE20, HE40	23, 23	

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

5 GHz TX Power Target		
Rate	Pout (dBm)	
802.11a	27	
MCS0 HT20, HT40	27, 27	
MCS0 HT20, HT40	24, 24	
MCS0 VHT40, VHT80, VHT160	27, 27, 27, 27	
MCS11 VHT40, VHT80, VHT160	22, 22, 22, 21	
MCS0 HE20, HE40, HE80, HE160	27, 27, 27, 27	
MCS11, HE20, HE40, HE80, HE160	22, 22, 22, 21	

## XV2-23T Wi-Fi 6 Outdoor Access Point

### XV2-23T Ordering Information

Regulatory Model	XV2-23T
XV2-23T0B00-US	XV2-23T Outdoor Dual radio WiFi 6 AP, 2x2, 2.5 GbE, IP67, US
XV2-23T0B00-EU	XV2-23T Outdoor Dual radio WiFi 6 AP, 2x2, 2.5 GbE, IP67, EU
XV2-23T0B00-RW	XV2-23T Outdoor Dual radio WiFi 6 AP, 2x2, 2.5 GbE, IP67, RW
XV2-23T0B00-CA	XV2-23T Outdoor Dual radio WiFi 6 AP, 2x2, 2.5 GbE, IP67, CA
C000000L141A	PoE, 60W, 56V, 10GbE DC Injector, Indoor, Energy Level 6 Supply, accepts C5 connector
N000000L034B	PoE injector, 30.5W, 56V, 5GbE 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
AX-E510RBKT-WW	Shock mount bracket, Metal bracket suited for wall and ceiling mount.
AX-O-WL1BKT-WW	Wall or Ceiling mounting bracket for Outdoor Wi-Fi access point. Adds security and allows mounting on junction boxes. Plastic bracket.

### cnMaestro X Subscriptions

MSX-SUB-XV2-23T-1	cnMaestro X for one XV2-23T AP. Creates one Device Tier 3 slot. Includes Cambium Care Pro support. 1-year subscription
MSX-SUB-XV2-23T-3	cnMaestro X for one XV2-23T AP. Creates one Device Tier 3 slot. Includes Cambium Care Pro support. 3-year subscription
MSX-SUB-XV2-23T-5	cnMaestro X for one XV2-23T AP. Creates one Device Tier 3 slot. Includes Cambium Care Pro support. 5-year subscription

### Cambium Care Support

CCADV-SUP-XV2-23T-1	Cambium Care Advanced, 1-year support for one XV2-23T Wi-Fi 6/6E AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCADV-SUP-XV2-23T-3	Cambium Care Advanced, 3-year support for one XV2-23T Wi-Fi 6/6E AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCADV-SUP-XV2-23T-5	Cambium Care Advanced, 5-year support for one XV2-23T Wi-Fi 6/6E AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCPRO-SUP-XV2-23T-1	Cambium Care Pro, 1-year support for one XV2-23T Wi-Fi 6/6E AP. 24x7 TAC support and SW updates
CCPRO-SUP-XV2-23T-3	Cambium Care Pro, 3-year support for one XV2-23T Wi-Fi 6/6E AP. 24x7 TAC support and SW updates
CCPRO-SUP-XV2-23T-5	Cambium Care Pro, 5-year support for one XV2-23T Wi-Fi 6/6E AP. 24x7 TAC support and SW updates
CCADV-UPG-XV2-23T-1	Cambium Care Advanced Add-on to cnMaestro X, 1-year support for one XV2-23T. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-XV2-23T-3	Cambium Care Advanced Add-on to cnMaestro X, 3-year support for one XV2-23T. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-XV2-23T-5	Cambium Care Advanced Add-on to cnMaestro X, 5-year support for one XV2-23T. 24x7 TAC support, SW updates, and NBDS advance replacement for HW

### LIMITED WARRANTY

Cambium Networks XV2-23T Wi-Fi 6 Access Point includes a limited lifetime hardware warranty for a period of 3 years.

### 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.