XV2-23T Wi-Fi 6 Outdoor Access Point

802.11ax Dual-radio, 2x2

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**

- **Managed by cnMaestro™ or Swift**

cnMaestro READY

Value tier Wi-Fi for any market

The Cambium Networks XV2-23T Wi-Fi 6 Outdoor access point delivers a high performance to price ratio attractive to any market. The XV2-23T can be onboarded and managed by your choice Cambium management systems - cnMaestro X or cnMaestro Essentials (either cloud-based or on-premises), or the Swift mobile app. 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 access point.
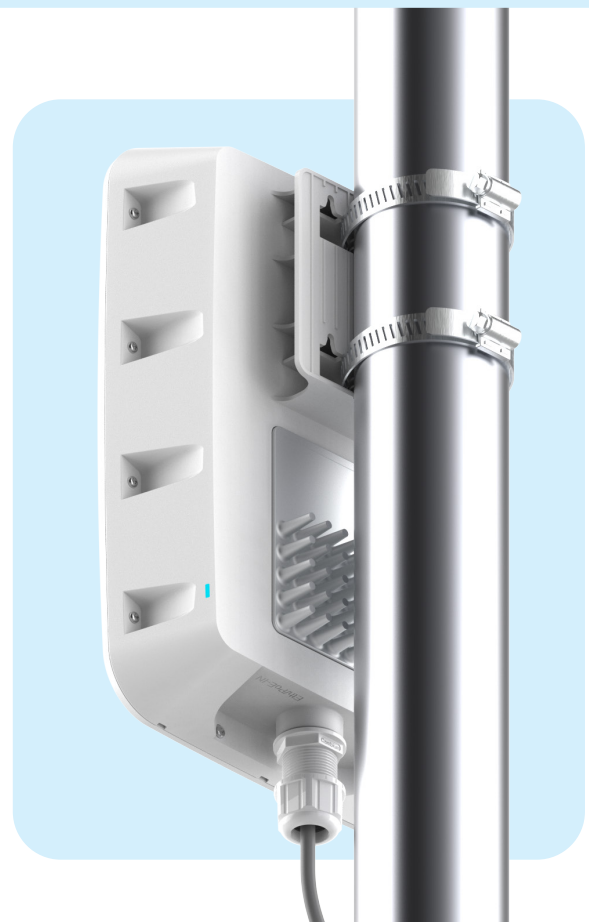
XV2-23T Wi-Fi 6 Outdoor Access Point

Access Point Specifications

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

FCC	Ch 1–11, 36–64, 100–144, 149–165
ISED	Ch 1–11, 36–64, 100–116, 149–165
ETSI	Ch 1–13, 36–64, 100–140
ROW	*Individual country limits apply. Please contact sales for country specific regulations.*
Note:	FCC, IC, EU DFS channels not supported in first release

Radios	**5 GHz**	802.11a/n/ac/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**	2,402 Mbps
	2.4 GHz radio	573.5 Mbps

Ports	1 x IEEE 100/1000 Mbps Ethernet

Antenna	**5 GHz**	10 dBi, Omni
	2.4 GHz	7 dBi, Omni

Max EIRP	**5 GHz**	36 dBm
	2.4 GHz	34 dBm
	EIRP may be limited by country regulations	

LTE Filter Band	38, 40

Power	Typical 11W, 802.3af powered device
Dimensions	300 mm x 200 mm x 84 mm (11.8 in x 7.9 in x 3.3 in)
Weight	1,220 g (2.69 lbs)
Security	Kensington lock slot
LEDs	Multi-color status LEDs
Ambient Operation Temperature	-40ºC to 65ºC (-40ºF to 149ºF)
Storage Temperature	-40ºC to 70ºC (-40ºF to 158ºF)
Humidity	95% RH non-condensing
MTBF	5,077,102 hours @ 25ºC 1,224,983 hours @ 65ºC
Mount Options	Pole or wall mounting. **Pole diameter:** MIN 30 mm / MAX 75 mm
Certifications (Compliance)	WiFi Alliance 802.11a/b/g/n/ac/ax, PP2.0 FCC, CE, IC, IEC60950, IEC62368, EN50121, EN61373

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Network Specifications

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

Operational Modes	Standalone Cloud managed cnMaestro or VM	**RF Management**	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
WLAN	256 clients, 16 SSIDs WPA-TKIP, WPA2 AES, 802.1x 802.11w PMF	**Network**	LACP (802.3ad) ,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	Hotspot 2.0, 802.1x EAP-SIM/AKA, EAP-PEAP, EAP-TTLS, EAP-TLS, MAC authentication local database or RADIUS		
Accounting	RADIUS accounting, multiple AAA	**Band Steer Load Balance**	Yes
Scheduled WLAN	On/off by day, week, time of day	**Tunnel**	L2TP, L2oGRE, PPPoE
Guest Access	EasyPass guest self-registration, guest Ambassador, ePSK, Vouchers, Rate Limit, Splash page hosted on AP or cnMaestro Client isolation per SSID, per network	**Network and RF Management Tools**	Wired and wireless remote packet capture, logging, ZapD
Data Limit	Client limit per SSID	**Services**	L2-L7 application visibility & control, WiFi Calling control, WIDs/WIPs, NTP, Syslog, SNMP traps, DNS proxy, auto-off on WAN failure
Subscriber QoS	WMM		
Fast Roaming	802.11r, OKC, Enhanced roaming	**API**	RESTful management and statistics API Presence location APIs
Mesh	Multi-hop, either band		
Channel Selection	Multi-modal channel selection with AutoChannel, Autotune (cnMaestro)	**IP**	IPv4, IPv6

Standards

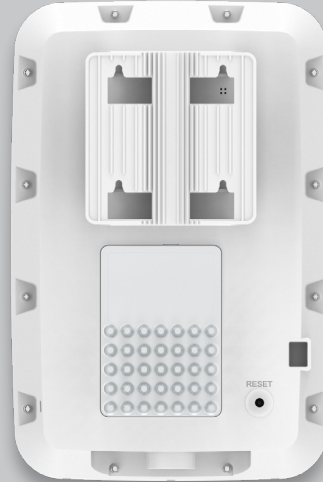|	
Wi-Fi Protocols	VHT MCS rates, 16/64/256/1024/4096-QAM, 20/40/80/160 MHz
	Transmit Beam steering, Airtime Fairness, AMSDU, AMPDU, RIFS, STBC, LDPC, MIMO Power Save, MRC, BPSK, QPSK, CCK, DSSS, OFDM
	IEEE 802.11d/e/h/i/k/r/u/v/w

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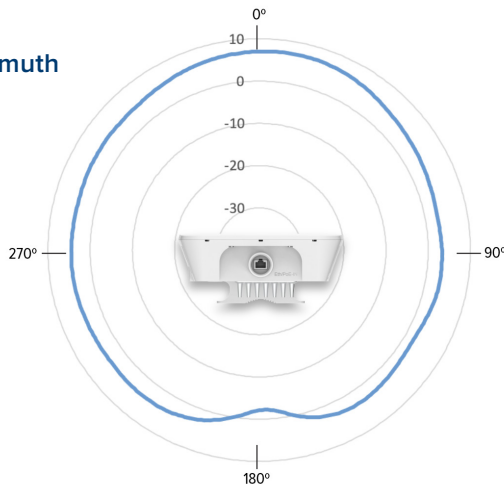
Front View

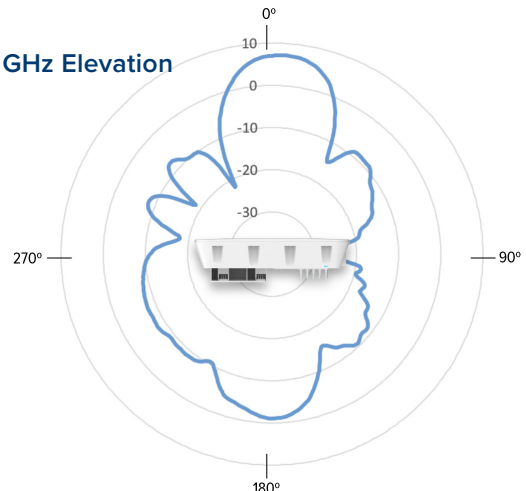Back Panel

Bottom View

Side View

Front View

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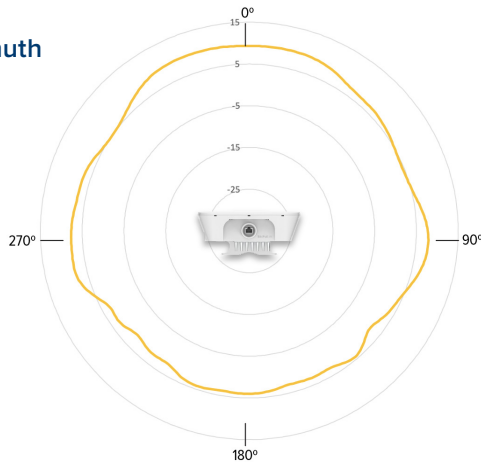
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Antenna Patterns

2.4 GHz Azimuth

2.4 GHz Elevation

5 GHz Azimuth

5 GHz Elevation
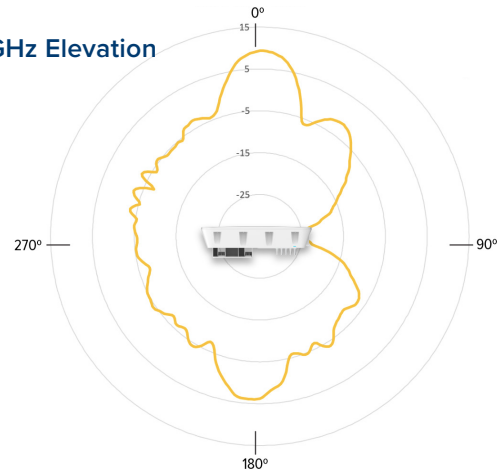
2.4 GHz Receive Sensitivity (dBm) Per Chain

802.11b		802.11g	
1 Mb	-99	1 Mb	-94.5
11 Mb	-91	11 Mb	-75.75
HT20		**HT40**	
MCS0	-95	MCS0	-92.5
MCS7	-76.5	MCS7	-73.5
HE20		**HE40**	
MCS0	-94.75	MCS0	-92
MCS11	-64.25	MCS11	-61.25

5 GHz Receive Sensitivity (dBm) Per Chain

VHT20		VHT40		VHT80		VHT160	
MCS0	-95.5	MCS0	-94	MCS0	-90	MCS0	-87.5
MCS7	-77	MCS7	-74	MCS7	-71.5	MCS7	-69
HE20		**HE40**		**HE80**		**HE160**	
MCS0	-95.5	MCS0	-93.5	MCS0	-90.5	MCS8	-65
MCS7	-76.5	MCS7	-74	MCS7	-71.5	MCS11	-57

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 TX Power Target

Rate	Pout (dBm)
802.11a	27
MCS0 HT20, HT40	27, 27
MCS7 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

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Cambium Ordering Information

XV2-23T	Regulatory Model
XV2-23T0A00-US	XV2-23T Outdoor Dual radio WiFi 6 AP, 2x2, 2.5 GbE, IP67, US
XV2-23T0A00-EU	XV2-23T Outdoor Dual radio WiFi 6 AP, 2x2, 2.5 GbE, IP67, EU
XV2-23T0A00-RW	XV2-23T Outdoor Dual radio WiFi 6 AP, 2x2, 2.5 GbE, IP67, RW
XV2-23T0A00-CA	XV2-23T Outdoor Dual radio WiFi 6 AP, 2x2, 2.5 GbE, IP67, CA
N000000L142A	N000000L142A PoE injector, 60W, 5 GbE, Outdoor, Energy Level 6 Supply
N000000L034B	PoE, 30.5W, 56V, GbE DC Injector, Outdoor, Energy Level 6 Supply, accepts C5 connector
N000900L017A	PoE, 15.4W, 56V, GbE DC Injector, Outdoor, Energy Level 6 Supply, accepts C5 connector
AX-E510RBKT-WW	Shock mount bracket

cnMaestro X Ordering Information

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

XV2-23T Wi-Fi 6 Outdoor Access Point

Cambium Care Ordering Information

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, 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-5	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
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 hardware warranty for a period of 3 years.

ABOUT CAMBIUM NETWORKS

Cambium Networks empowers millions of people with wireless connectivity worldwide. Its wireless portfolio is used by commercial and government network operators as well as broadband service providers to connect people, places and things. With a single network architecture spanning fixed wireless and Wi-Fi, Cambium Networks enables operators to achieve maximum performance with minimal spectrum. End-to-end cloud management transforms networks into dynamic environments that evolve to meet changing needs with minimal physical human intervention. Cambium Networks empowers a growing ecosystem of partners who design and deliver gigabit wireless solutions that just work.

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