XV2-2T0 Wi-Fi 6 Outdoor Access Point

802.11ax dual-radio, 2x2

QUICK LOOK:

- **Dual radio 802.11ax**

- **2.5 GbE Uplink Ethernet**

- **1 GbE with power out**

- **Outdoor IP67 rated, -40°C to 65°C**

Outdoor Wi-Fi 6 Designed for Greater Range and Speed

The XV2-2T0 is a dual radio Wi-Fi 6 access point (AP) designed for outdoor deployments in Wi-Fi hotspots, outdoor enterprise networks, hospitality, and education markets. The XV2 2T features surge suppression up to 4kV and an LTE co-existence filter.

The XV2-2T0 delivers Cambium 30VDC power out, or 48VDC for PoE devices connected to the second gigabit Ethernet port. Ideal for connecting the XV2-2T0 to a Cambium subscriber module (SM), Terragraph CN (connection node), or any IP and Ethernet device such as a security IP camera, or another Wi-Fi access point.

The new IEEE 802.11ax standard delivers higher network speeds and enables more connected devices at higher packet quality. In outdoor deployments, the IEEE 802.11ax standard delivers greater range by boosting the RF frame preamble by 3dB and improved signal quality with increased guard interval vs previous Wi-Fi technology. The XV2-2T0 is fully backward compatible with existing Wi-Fi technology and prepares a network for higher growth and greater density of Wi-Fi connected devices.
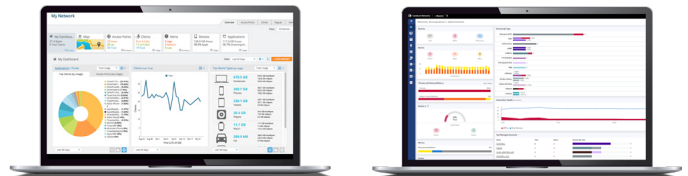
Cloud or on-premises management

XV2-2T0 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, 52–64, 100–144, 149–165

ISED Ch 1–11, 36–48, 52–64, 100–144, 149–165

ETSI Ch 1–13, 36–48, 52–64, 100–144

ROW (Individual country limits may apply)
Ch 1–14, 36–48, 52–64, 100–144, 149–177
2400–2483.5 MHz, 5150–5895 MHz

Radios	**5 GHz** 802.11 a/n/ac Wave 2/ax, 2x2
	2.4 GHz 802.11 b/g/n/ax, 2x2
	BLE 4.1
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 100/1000/2500 Mbps
	1 x IEEE 10/100/1000 Mbps Ethernet with SW configurable passive PoE output of 30V or 48V up to 30 Watts
Antenna	**5 GHz** 9.3 dBi, Omni
	2.4 GHz 5.3 dBi, Omni
Max EIRP	**5 GHz** 36 dBm
	2.4 GHz 33 dBm
	EIRP may be limited by country regulations
LTE Filter Band	38, 40

Power	20W max
	Up to 50W when powering an auxiliary device
Dimensions	582 mm x 200 mm x 80 mm
	(22.91 in x 7.87 in x 3.15 in)
Weight	1,200 g (2.64 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	25ºC = 669,174 hours
	65ºC = 206,739 hours
Mount Options	Pole or wall mounting.
	Pole diameter: MIN 30 mm / MAX 75 mm
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, EN 62311 Human Safety/RF Exposure, WEEE & RoHS

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Management

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

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, cloud-managed 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	

XV2-2T0 Wi-Fi 6 Outdoor 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 Cloud managed XMS	**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	1024 concurrent clients per Access Point, 16 SSIDs WPA3, WPA3 SAE, WPA3 Enterprise, 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	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	**Band Steer Load Balance**	Yes
Guest Access	See "Captive Portal" section for additional details.	**Tunnel**	L2TP, L2oGRE, PPPoE
Data Limit	Client bitrate/time/throughput limit per SSID	**Network and RF Management Tools**	Wired and wireles remote packet capture, auto logging, ZapD performance tool, rogue AP detection
Subscriber QoS	WMM	**Services**	NTP, Syslog, WIDs/WIPs, SNMP traps, DNS proxy
VLAN	802.11Q, max 4096		
Fast Roaming	802.11r, OKC, Enhanced roaming		
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

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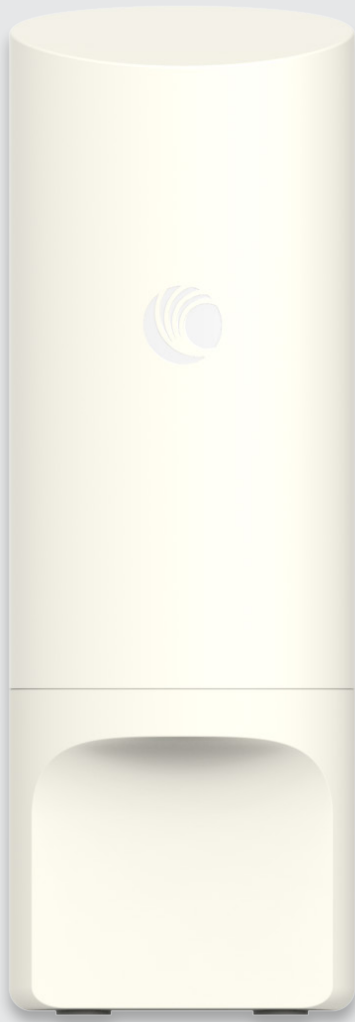
Back Panel
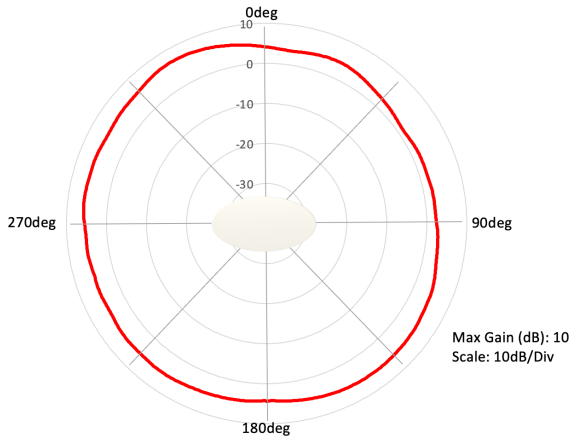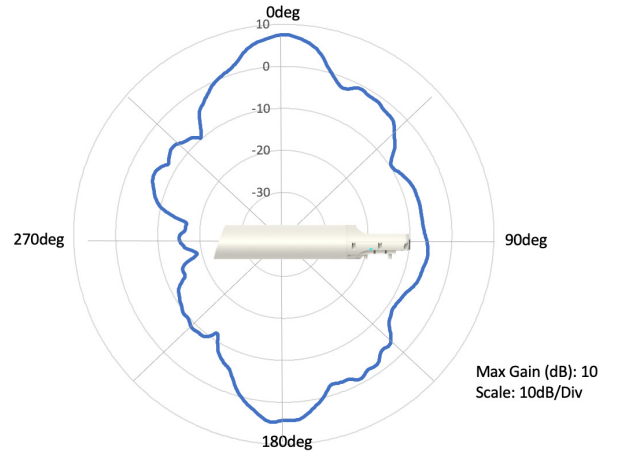

Bottom View

Front View

Side View

Front View

XV2-2T0 Wi-Fi 6 Outdoor Access Point

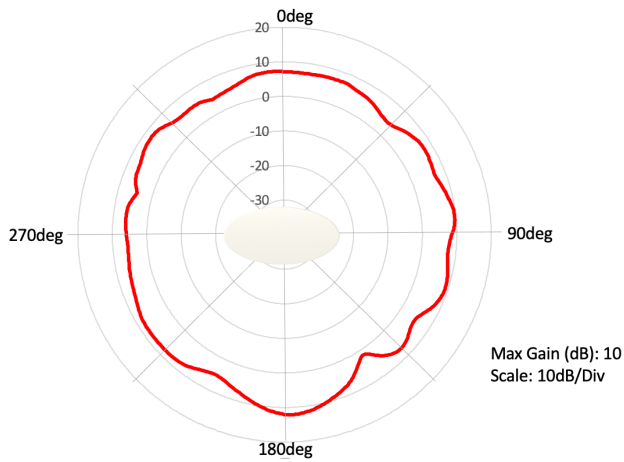## Antenna Patterns

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
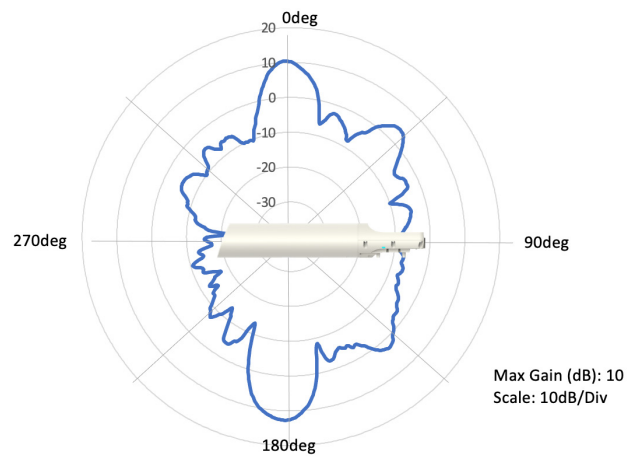
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Cambium Ordering Information

REG-XV2-2T0	Regulatory Model
XV2-2T0XA00-US	XV2-2T0 Dual-Radio Wi-Fi 6. Outdoor (FCC) 802.11ax 2x2, Omni, US
XV2-2T0XA00-CA	XV2-2T0 Dual-Radio Wi-Fi 6. Outdoor (IC) 802.11ax 2x2, Omni, CA
XV2-2T0XA00-EU	XV2-2T0 Dual-Radio Wi-Fi 6. Outdoor (ETSI) 802.11ax 2x2, Omni, EU
XV2-2T0XA00-RW	XV2-2T0 Dual-Radio Wi-Fi 6. Outdoor 802.11ax 2x2, Omni, RW
N000000L142A	PoE, 60W, 56V, 5GbE DC Injector, Indoor, Energy Level 6 Supply, accepts C5 connector
N000900L031A	AC line cord, US Type B, 720mm, C5 connector
N000900L032A	AC line cord, EU Type F angled, 720mm, C5 connector
N000900L033A	AC line cord, UK Type G angled, 720mm, C5 connector
N000900L034A	AC line cord, BR Type N, 720mm, C5 connector
N000900L011A	AC line cord, AU Type I, 720mm, C5 connector
N000900L012A	AC line cord, IN Type D angled, 720mm, C5 connector
N000900L013A	AC line cord, AR Type I, 720mm, C5 connector
N000900L015A	AC line cord, CN Type I, 720mm, C5 connector
N000900L048A	AC line cord, ZA Type M angled, 720mm, C5 connector

cnMaestro X Ordering Information

MSX-SUB-T3-1	cnMaestro X for Enterprise: Advanced management and includes Cambium Care Pro Support; 1-year term
MSX-SUB-T3-3	cnMaestro X for Enterprise: Advanced management and includes Cambium Care Pro Support; 3-year term
MSX-SUB-T3-5	cnMaestro X for Enterprise: Advanced management and includes Cambium Care Pro Support; 5-year term
MSX-SUB-T3-M	cnMaestro X for Enterprise: Advanced management and includes Cambium Care Pro Support; 1-month term

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XMS and Cambium Care Ordering Information

XMSC-SUB-2R-1	XMS-Cloud 1-year subscription: 2-radio AP with EasyPass Guest Self-Registration and Guest Ambassador modules and Cambium Care Advanced Support
XMSC-SUB-2R-3	XMS-Cloud 3-year subscription: 2-radio AP with EasyPass Guest Self-Registration and Guest Ambassador modules and Cambium Care Advanced Support
XMSC-SUB-2R-5	XMS-Cloud 5-year subscription: 2-radio AP with EasyPass Guest Self-Registration and Guest Ambassador modules and Cambium Care Advanced Support
EASY-SUB-2R-1	EasyPass 1-year subscription for a 2-radio AP operating with XMS-Cloud or XMS-Enterprise
EASY-SUB-2R-3	EasyPass 3-year subscription for a 2-radio AP operating with XMS-Cloud or XMS-Enterprise
EASY-SUB-2R-5	EasyPass 5-year subscription for a 2-radio AP operating with XMS-Cloud or XMS-Enterprise
CCADV-SUP-XV2-2T-1	Cambium Care Advanced, 1-year support for one XV2-2T0 Wi-Fi 6 AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCADV-SUP-XV2-2T-3	Cambium Care Advanced, 3-year support for one XV2-2T0 Wi-Fi 6 AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCADV-SUP-XV2-2T-5	Cambium Care Advanced, 5-year support for one XV2-2T0 Wi-Fi 6 AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCPRO-SUP-XV2-2T-1	Cambium Care Pro, 1-year support for one XV2-2T0 Wi-Fi 6 AP. 24x7 TAC support and SW updates
CCPRO-SUP-XV2-2T-3	Cambium Care Pro, 3-year support for one XV2-2T0 Wi-Fi 6 AP. 24x7 TAC support and SW updates
CCPRO-SUP-XV2-2T-5	Cambium Care Pro, 5-year support for one XV2-2T0 Wi-Fi 6 AP. 24x7 TAC support and SW updates

LIMITED WARRANTY

Cambium Networks XV2-2T0 Wi-Fi 6 Access Point includes
a 3-year hardware warranty.

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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