CAMBIUM XV2-23T Wi-Fi 6 ACCESS POINT DATASHEET

Overview

The Cambium Networks XV2-23T is a cost-effective, IP67-rated outdoor Wi-Fi 6 (802.11ax) access point with dual 2x2 radios (5 GHz: 2,402 Mbps; 2.4 GHz: 573.5 Mbps) delivering up to 2.97 Gbps, ideal for extended coverage in hospitality, education, municipal, and logistics settings. It features a 2.5 GbE PoE port (20W typical), high-gain omni antennas (10 dBi 5 GHz, 7 dBi 2.4 GHz), and flexible cnMaestro management with zero-touch provisioning. With WPA3 security, EasyPass guest access, and robust mounting options, it ensures reliable, scalable performance.

FIGURE 1: APPEARANCE OF Cambium XV2-23T

TABLE 1: QUICK SPECS OF Cambium XV2-23T

SKU	XV2-23T0A00-RW
Description	Outdoor Dual Radio Wi-Fi 6 Access Point, 2x2, 2.5 GbE, IP67, ROW (Rest of World)
Wifi standard	802.11 a/b/g/n/ac/ax
Dimensions	300 mm x 200 mm x 84 mm (11.8 in x 7.9 in x 3.3 in)
Antenna	Internal omnidirectional

FIGURE 2: FRONT PANEL OF Cambium XV2-23T

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FIGURE 3: BACK PANEL OF Cambium XV2-23T

Cambium XV2-23T AP provides these features:

1.High-Performance Wi-Fi 6 Technology

The XV2-23T leverages 802.11ax dual radios (2x2 MU-MIMO) with 5 GHz (2,402 Mbps) and 2.4 GHz (573.5 Mbps), delivering up to 2.97 Gbps aggregate throughput for outdoor high-density scenarios. Supports OFDMA, 1024-QAM, and 160 MHz channels, providing 4x capacity over Wi-Fi 5, ideal for bandwidth-intensive applications. Features like Transmit Beamsteering, UL/DL MU-MIMO, and BSS Coloring minimize interference and optimize signal focus for extended coverage up to 1 km. Target Wake Time (TWT) enhances IoT device efficiency, making it perfect for smart cities or logistics yards.

2.Robust Outdoor Design

The XV2-23T withstands extreme conditions (-40°C to 65°C, 95% RH non-condensing) with an IP67-rated enclosure, ensuring reliable operation in harsh outdoor environments like public hotspots or warehouses. Compact dimensions (300 mm x 200 mm x 84 mm) and lightweight 1,200 g (2.65 lbs) design include pole (30-75 mm) or wall mounting kits for fast deployment. High-gain omni antennas (10 dBi on 5 GHz, 7 dBi on 2.4 GHz) and LTE Band 38/40 filtering ensure consistent long-range coverage. MTBF of over 5 million hours at 25°C guarantees long-term durability for municipal or campus use.

3.Flexible Multi-Platform Management

Managed via cnMaestro Essentials (free) or cnMaestro X (paid with DPI, APIs), it offers cloud, on-premises, or standalone modes with seamless switching and zero-touch provisioning for up to 10,000 APs. Auto-RF optimization dynamically adjusts channels/power, while RF monitoring tracks utilization and interference for real-time performance tuning. RESTful APIs, presence location push, and Webhooks enable advanced analytics and integration, ideal for multi-site enterprises. Cambium Care Pro/Advanced support options provide 24/7 TAC and NBD hardware replacement, reducing downtime in critical deployments.

4.Advanced Security and Authentication

It supports WPA3-SAE/Enterprise, ePSK, OWE, OSEN, and 802.11w PMF, with 802.1x EAP (TTLS/TLS/PEAP/SIM/AKA) and MAC authentication via RADIUS or local database for secure access control. Features rogue AP detection, WIDS/WIPS, L2-L7 firewall, DNS-based ACLs, and DoS protection, ensuring robust network integrity in public venues. VLAN per SSID/user (up to 4096) and ePSK with VLAN assignment enhance segmentation for secure multi-tenant environments. EasyPass portal supports RADIUS, social login (Google/Facebook), SMS, Azure AD, and voucher-based access, perfect for hospitality or events.

5.Seamless Guest Access and Hotspot Services

The cnMaestro-hosted EasyPass portal offers customizable guest access with click-through, social login (Google/Facebook), SMS, voucher, self-registration, sponsored, or paid options, plus Hotspot 2.0/802.11u for carrier offload. Supports Wi-Fi Calling, multicast-to-unicast conversion, and client bitrate/throughput limits per SSID for optimized user experiences in public hotspots. Integrates with Microsoft Azure AD and Google Workspace for corporate-grade guest authentication, ideal for educational or municipal settings. Network tools like remote packet capture, ZapD, and TCP/DNS logging enhance troubleshooting and monetization capabilities for outdoor retail or event spaces.

SPECIFICATION

Cambium XV2-23T Specification	
MODEL NUMBER	XV2-23T
WIFI STANDARD	802.11 a/b/g/n/ac/ax
WEIGHT	1,200 g (2.65 lbs)
DIMENSIONS (W x H x D)	300 mm x 200 mm x 84 mm (11.8 in x 7.9 in x 3.3 in)
RADIOS	5 GHz 802.11 a/n/ac/ax, 2x2 2.4 GHz 802.11 b/g/n/ax, 2x2
MAX EIRP	5 GHz 36 dBm 2.4 GHz 34 dBm
MAX PHY RATE	5 GHz radio 2,402 Mbps 2.4 GHz radio 573.5 Mbps
PORTS	1 x IEEE 10/100/1000 Mbps Ethernet
ANTENNA GAIN	5 GHz 10 dBi, Omni 2.4 GHz 7 dBi, Omni
WLAN	256 concurrent clients 16 SSIDs per AP
SSID SECURITY	WPA3-SAE, WPA3-Enterprise, WPA2-PSK (CCMP, AES, 802.11i), WPA2-Enterprise (802.1X/EAP), OSEN, OWE, Open
OPERATING TEMPERATURE	-40ºC to 65ºC (-40ºF to 149ºF)
STORAGE TEMPERATURE	-40ºC to 70ºC (-40ºF to 158ºF)
HUMIDITY	95% RH non-condensing
MOUNTING	Pole or wall mounting. Pole diameter: min 30 mm / max 75 mm

POWER CONSUMPTIONS	Typical 20W, 802.3at powered device
LED	Multi-color status LEDs, dimmable, on/off
FILTER LTE BAND	38, 40
MTBF	5,077,102 hours @ 25°C 1,224,983 hours @ 65°C
CERTIFICATIONS	WiFi Alliance 802.11a/b/g/n/ac/ax, PP2.0 FCC, CE, IC, IEC60950, IEC62368, EN50121, EN61373

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