

# Twoja Infrastruktura IT

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NETF, specjalizujemy się w sprzedaży zaawansowanej infrastruktury IT. Znajdą tu Państwo szeroki asortyment produktów od czołowych światowych producentów sprzętu i oprogramowania IT, w tym H3C, Huawei, Cisco, Juniper, Fortinet, a także Dell, IBM, CommVault i ESET. Dzięki współpracy z tymi renomowanymi partnerami, NETF zapewnia swoim klientom dostęp do najnowocześniejszych rozwiązań technologicznych.

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**Bezpieczeństwo,  
Efektywność,  
Optymalizacja**



# 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<br><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<br>(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<br><b>2.4 GHz</b> 7 dBi, Omni   | <b>Mount Options</b>                 | Pole or wall mounting.<br>Pole diameter: min 30 mm / max 75 mm   |
| <b>Max EIRP*</b>       | <b>5 GHz</b> 36 dBm<br><b>2.4 GHz</b> 34 dBm  | <b>Ambient Operation Temperature</b> | -40°C to 65°C (-40°F to 149°F)   |
| <b>Max PHY Rate</b>    | <b>5 GHz</b> radio 2,402 Mbps<br><b>2.4 GHz</b> radio 573.5 Mbps  | <b>Storage Temperature</b>           | -40°C to 70°C (-40°F to 158°F)   |
| <b>Filter LTE Band</b> | 38, 40  | <b>Humidity</b>                      | 95% RH non-condensing  |
| <b>FCC</b>             | Ch 1–11, 36–48, 52–64, 100–144, 149–165   | <b>MTBF</b>                          | 5,077,102 hours @ 25°C<br>1,224,983 hours @ 65°C   |
| <b>ISED</b>            | Ch 1–11, 36–48, 52–64, 100–116, 149–165   | <b>LEDs</b>                          | Multi-color status LEDs, dimmable, on/off  |
| <b>ETSI*</b>           | Ch 1–13, 36–64, 52–64, 100–140, 149–173   | <b>Certifications</b>                | WiFi Alliance 802.11a/b/g/n/ac/ax, PP2.0<br>(compliance) FCC, CE, IC, IEC60950, IEC62368, EN50121, EN61373 |
| <b>ROW*</b>            | Ch 1–14, 36–48, 52–64, 100–144, 149–177   |                                      |  |

\*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<br>Transmit Beam steering, AMSDU, AMPDU, RIFS, STBC, LDPC, MIMO Power Save, MRC, BPSK, QPSK, CCK, DSSS, OFDM, OFDMA, UL/DL MU-MIMO<br>IEEE 802.11a/ac/ax/b/d/e/g/h/i/k/n/r/u/v/w |
|------------------------|---|

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

### Network Specifications

|   |   |                              |   |
|---|---|------------------------------|---|
| <b>Operational Modes</b>                                | Controllerless standalone<br>Cloud-managed cnMaestro or VM  | <b>RF Management</b>         | Multi-modal RF optimization supporting Auto-RF for dynamic channel selection and dynamic power adjustment configured via cnMaestro, performed in the intelligent edge AP.<br><br>RF monitor with channel utilization/ packet error rate / interference. |
| <b>WLAN</b>   | 256 concurrent clients<br>16 SSIDs per AP   | <b>Band Steering</b>         | Yes   |
| <b>Security, Authentication Encryption</b>              | Open, WPA2-AES with PSK, ePSK and Enterprise<br><br>WPA3 with PSK (WPA3-SAE), ePSK, Enterprise, Enterprise-CNSA, OWE (Enhanced Open)<br><br>OSEN and PMF (802.11 W)<br><br>MAC authentication with local database or external database using RADIUS protocol<br><br>802.1X with EAP-TTLS, EAP-TLS / MSCHAPv2, PEAPv0 / PEAPv1 / EAP-PEAP / EAP-SIM/AKA/AKA'/FAST<br><br>Hotspot 2.0 WEB authentication  | <b>Mesh</b>                  | Multi-hop, either band  |
| <b>Wi-Fi Quality of Service</b>                         | WMM (packet marking either with 802.1p or IP DSCP), WMM-PS, U-APSD<br><br>Multicast to unicast conversion   | <b>Scheduled WLAN</b>        | On/off by day, week, time of day  |
| <b>Service Availability</b>                             | Critical network resource monitor with SSID shutdown  | <b>Data Limit</b>            | Client bitrate/time/throughput limit per SSID   |
| <b>Fast Roaming</b>                                     | 802.11k/r/v, OKC, cnMaestro-assisted roam   | <b>Network</b>               | TCP connection log, NAT logging firewall, DHCP server, DHCP Relay option 82, VLAN pooling, RADIUS attribute, VID VLAN per SSID per user, ePSK with VLAN assignment per PSK<br><br>LLDP, IGMP v1, v2   |
| <b>Guest Access/ Captive Portal Service (EasyPass)*</b> | cnMaestro-hosted EasyPass portal<br>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<br>802.11u, Hotspot 2.0 | <b>Network Tools</b>         | Wired and wireless remote packet capture, logging, WAN speed test, ZapD, remote network connectivity tools  |
| <b>Accounting</b>                                       | RADIUS accounting, load balancing AAA servers, Dynamic Authorization COA, DM  | <b>Tunnel</b>                | L2TPv2, L2GRE, PPPoE  |
| <b>API</b>  | RESTful management and statistics API via cnMaestro X, presence location push APIs  | <b>IP</b>                    | IPv4, IPv6  |
|   |   | <b>VLAN</b>                  | 802.11Q, max 4096   |
|   |   | <b>Management Interfaces</b> | HTTP / HTTPS web interface, SSH, Telnet   |
|   |   | <b>Security</b>              | Rogue AP detection and termination(X), WIDs/WIPs, DoS protection<br><br>L2–L7 firewall with application visibility(X) & control(X), DNS based access control(X).<br><br>ACL and AirCleaner tools  |
|   |   | <b>Services</b>              | Wi-Fi Calling control, NTP, Syslog, DNS proxy, SNMP traps, SNMPv1, SNMPv2c, SNMPv3, TCP and DNS logging   |

\*X features available in cnMaestro X.

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

### Management



**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:

#### 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.

#### 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

**Find out more about  
cnMaestro**

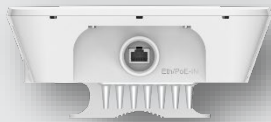
### XV2-23T Wi-Fi 6 Outdoor Access Point



Front



Back



Bottom

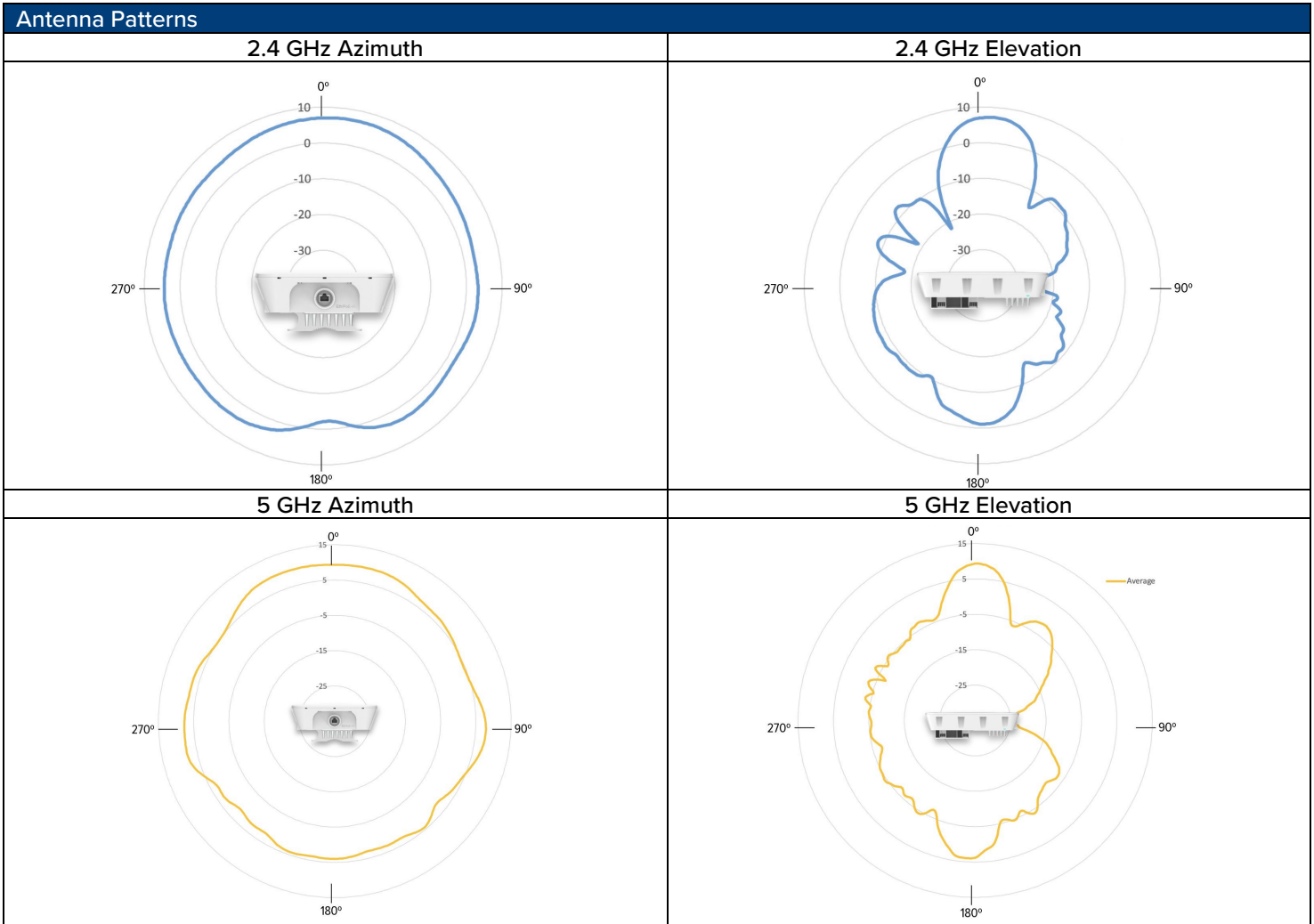


Side



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 |
| 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 |

| 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 | VHT160 |      |       |
| MCS0                                      | -95.5 | MCS0  | -94    | MCS0 | -87.5 |
| MCS7                                      | -77   | MCS7  | -74    | MCS7 | -69   |
| HE20                                      |       | HE40  |        | HE80 | HE160 |
| MCS0                                      | -95.5 | MCS0  | -93.5  | MCS0 | -65   |
| MCS7                                      | -76.5 | MCS7  | -74    | MCS7 | -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

|                         |   |
|-------------------------|---|
| <b>Regulatory Model</b> | XV2-23T   |
| <b>XV2-23T0B00-US</b>   | XV2-23T Outdoor Dual radio WiFi 6 AP, 2x2, 2.5 GbE, IP67, US                                    |
| <b>XV2-23T0B00-EU</b>   | XV2-23T Outdoor Dual radio WiFi 6 AP, 2x2, 2.5 GbE, IP67, EU                                    |
| <b>XV2-23T0B00-RW</b>   | XV2-23T Outdoor Dual radio WiFi 6 AP, 2x2, 2.5 GbE, IP67, RW                                    |
| <b>XV2-23T0B00-CA</b>   | XV2-23T Outdoor Dual radio WiFi 6 AP, 2x2, 2.5 GbE, IP67, CA                                    |
| <b>C000000L141A</b>     | PoE, 60W, 56V, 10GbE DC Injector, Indoor, Energy Level 6 Supply, accepts C5 connector           |
| <b>N000000L034B</b>     | PoE injector, 30.5W, 56V, 5GbE DC Injector, Indoor, Energy Level 6 Supply, accepts C5 connector |
| <b>N000900L017A</b>     | PoE, 15.4W, 56V, GbE DC Injector, Indoor, Energy Level 6 Supply, accepts C5 connector           |
| <b>AX-E510RBKT-WW</b>   | Shock mount bracket   |

### cnMaestro X Subscriptions

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

### Cambium Care Support

|                            |  |
|----------------------------|--|
| <b>CCADV-SUP-XV2-23T-1</b> | 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          |
| <b>CCADV-SUP-XV2-23T-3</b> | 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          |
| <b>CCADV-SUP-XV2-23T-5</b> | 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          |
| <b>CCPRO-SUP-XV2-23T-1</b> | Cambium Care Pro, 1-year support for one XV2-23T Wi-Fi 6/6E AP. 24x7 TAC support and SW updates  |
| <b>CCPRO-SUP-XV2-23T-3</b> | Cambium Care Pro, 3-year support for one XV2-23T Wi-Fi 6/6E AP. 24x7 TAC support and SW updates  |
| <b>CCPRO-SUP-XV2-23T-5</b> | Cambium Care Pro, 5-year support for one XV2-23T Wi-Fi 6/6E AP. 24x7 TAC support and SW updates  |
| <b>CCADV-UPG-XV2-23T-1</b> | 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 |
| <b>CCADV-UPG-XV2-23T-3</b> | 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 |
| <b>CCADV-UPG-XV2-23T-5</b> | 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.

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