

# Wi-Fi 6 Indoor Access Point

## 802.11ax Indoor Access Point

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

### QUICK LOOK:

Dual Radio Wi-Fi 6  
5 GHz (2x2), 2.4 GHz (2x2)  
One GbE  
Manage by cnMaestro, XMS Cloud, Swift



### VALUE TIER Wi-Fi FOR ANY MARKET

The Cambium Networks 21X Wi-Fi 6 Indoor access point delivers a high performance to price ratio attractive to any market.

The 21X can be adopted and managed by any of the Cambium Networks management systems, cnMaestro Cloud, cnMaestro X, cnMaestro on-premises, XMS-Cloud, or Swift app-based management. Choose the management type you need, and change it at any time. Unlike other value-tier access points, the 21X is never locked into just one management selection.

### DESIGNED FOR FAST INSTALLATION

The 21X offers multiple installation methods included in the same shipping box. Mount the AP to a ceiling tile using the included steel plate, mount to an existing junction box with 83mm center-to-center holes, twist lock the AP onto a 36mm, 24mm and 14mm T-bar, or simply mount it to any flat surface using the included wall anchors. No accessory brackets are needed.

### 21X Indoor AT-A-GLANCE

- 802.11a/b/g/n/ac, ax
- 5 GHz (2x2), 2.4 GHz (2x2)
- 1 GbE RJ45 interface
- Multiple mounting options
  - Ceiling tile
  - T-bar
  - Junction Box
- five year hardware warranty providing return and repair service on the access point.
- Additional support options are available for extended hours and advanced replacement

**STANDARDS**

802.11a/b/g/n/ac wave 2, 802.11ax, up to 2x2. 20/40/80 MHz, MU-OFDMA, MU-MIMO, TWT, MIMO, VHT MCS rates, 16/64/256/1024/4096-QAM, HT20/40/80/160 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

**ACCESS POINT SPECIFICATIONS**

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 may apply)  
 Note: US FCC, IC FCC, 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
MAX PHY Rate	2.4 GHz 2x2 radio: 573.5 Mbps 5 GHz 2x2 radio: 2402 Mbps
Antenna	5 GHz: 5 dBi 2.4 GHz: 5 dBi
Max EIRP	5 GHz: 30 dBm 2.4 GHz: 30 dBm

Ports	1 x IEEE 10/100/1000 Mbps Ethernet
SSID Security	WPA3, WPA2 (CCMP, AES, 802.11i), WPA2 Enterprise (802.1x/EAP), WPA PSK (TKIP), WEP, Open
MTBF	246k hours @ 50C (estimated)
Power	Typical power 11W (802.3af)
Physical Environmental	155 mm x 155 mm x 40 mm (6.1 in x 6.1 in x 1.57 in) 250g Multi-color status LED, dimmable, on/off 0C - + 50C ambient op temp -40C - + 70C storage temperature 95% RH non-condensing
CERTIFICATIONS	WiFi Alliance 80211a/b/g/n/ac, PP2.0 FCC, ETSI, CE, EN 60601-1-2, IEC60950, UL2043, EN 61373

**WLAN AND NETWORK SPECIFICATIONS**

CONTROLLER MODE	Controller-less standalone Cloud managed cnMaestro, XMS, VM
WLAN	256 clients, 16 SSIDs WPA-TKIP, WPA2 AES, 802.1x 802.11w PMF
CAPTIVE PORTAL	Hosted in XMS-Cloud or cnMaestro VM On-AP hosted guest portal Redirect to HTTP/RADIUS, DNS logging
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
SCHEDULED WLAN	On/off by day, week, time of day
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
DATA LIMIT	Client rate limit per SSID
SUBSCRIBER QOS	WMM
FAST ROAMING	802.11r, OKC, Enhanced roaming
MESH	Multi-hop, either band

CHANNEL SELECTION	Multi-modal channel selection with AutoChannel, AutoBand (XMS) and autotune (cnMaestro)
RF MANAGEMENT	Multi-Modal RF optimization supporting AutoCell (XMS) and AutoRF (cnMaestro) performed in the intelligent edge AP. Out of band RF spectrum analysis, radio self test network assurance (XMS), RF monitor with chn/noise/interference
Network	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
BAND STEER LOAD BALANCE	Yes
TUNNEL	L2TP, L2oGRE, PPPoE
NETWORK TOOLS	Wired and wireless remote packet capture, logging, ZapD
SERVICES	L2-L7 application visibility & control, WiFi Calling control, WIDs/WIPs, NTP, Syslog, SNMP traps, DNS proxy, auto-off on WAN failure
API	RESTful management and statistics API Presence location APIs

**Ordering Information**

Regulatory Model	XV2-21X
Marketing Model	21X
XV2-21X0A00-US	XV2-21X Indoor Dual radio WiFi 6 AP, 2x2, GbE, US
XV2-21X0A00-EU	XV2-21X Indoor Dual radio WiFi 6 AP, 2x2, GbE, EU
XV2-21X0A00-RW	XV2-21X Indoor Dual radio WiFi 6 AP, 2x2, GbE, RW
XV2-21X0A00-CA	XV2-21X Indoor Dual radio WiFi 6 AP, 2x2, GbE, CA
N000000L142A	N000000L142A PoE injector, 60W, 5 GbE, Indoor, Energy Level 6 Supply
N000000L034B	PoE, 30.5W, 56V, GbE 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

**cnMaestro X Subscriptions**

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

**XMS and EasyPass Subscription**

XMSC-SUB-2R-1	XMS-Cloud 1-year subscription: 2 or 3-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 or 3-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 or 3-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 or 3-radio AP operating with XMS-Cloud
EASY-SUB-2R-3	EasyPass 3-year subscription for a 2 or 3-radio AP operating with XMS-Cloud
EASY-SUB-2R-4	EasyPass 5-year subscription for a 2 or 3-radio AP operating with XMS-Cloud

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**Cambium Care Support**

CCADV-SUP-XV21X-4-1	Cambium Care Advanced, 1-year support for one XV21X Wi-Fi 6/6E AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCADV-SUP-XV21X-3	Cambium Care Advanced, 3-year support for one XV21X Wi-Fi 6/6E AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCADV-SUP-XV21X-5	Cambium Care Advanced, 5-year support for one XV21X Wi-Fi 6/6E AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCPRO-SUP-XV21X-1	Cambium Care Pro, 1-year support for one XV21X Wi-Fi 6/6E AP. 24x7 TAC support and SW updates
CCPRO-SUP-XV21X-3	Cambium Care Pro, 3-year support for one XV21X Wi-Fi 6/6E AP. 24x7 TAC support and SW updates
CCPRO-SUP-XV21X-5	Cambium Care Pro, 5-year support for one XV21X Wi-Fi 6/6E AP. 24x7 TAC support and SW updates
CCADV-UPG-XV21X-1	Cambium Care Advanced Add-on to cnMaestro X, 1-year support for one XV21X. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-XV21X-3	Cambium Care Advanced Add-on to cnMaestro X, 3-year support for one XV21X. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-XV21X-5	Cambium Care Advanced Add-on to cnMaestro X, 5-year support for one XV21X. 24x7 TAC support, SW updates, and NBDS advance replacement for HW

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**LIMITED LIFETIME WARRANTY**

Cambium Networks 21X Indoor Wi-Fi 6 Access Point includes a five year hardware warranty from time of sale