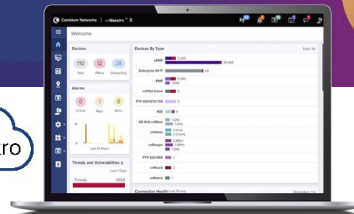# X7-35X Wi-Fi 7 Indoor Access Point

802.11be Tri-Radio 2+2+2 Access Point with BLE/Zigbee

X7-35X AP Quick Look

- Tri-radio/tri-band Wi-Fi 7
- 6 GHz (2x2), 5 GHz (2x2), 2.4 GHz (2x2)
- 9.2 Gbps aggregate data rate
- 2.5 GbE uplink port
- LPI (low power indoor) mode
- BLE/Zigbee®/Thread/Matter IOT radio
- Managed by cnMaestro™
- Limited lifetime warranty

cnMaestro

Unbeatable Value for Any Market

The Cambium Networks X7-35X Wi-Fi 7 Indoor Access Point (AP) is designed to deliver cutting-edge performance and flexibility at a price point suitable for any market. Power your network with the latest Wi-Fi technology, without breaking the bank.

Fast Installation

The X7-35X Wi-Fi 7 AP streamlines installation, saving you time and money. Its multi-functional mounting system easily installs the access point over multiple telecom and electrical junction boxes, on a suspended drop ceiling system, or to any flat surface. The recessed Ethernet port and trim mounting bracket enables an aesthetically pleasing installation and final finish. Plus, the new Wi-Fi 7 junction box bracket is backwards compatible with the XV3-8 and XE3-4.

Cloud and On-Premises Management

X7-35X operates using Cambium's cnMaestro Network Management, accessible on both cloud and on-premises platforms. Aligned with Cambium's ONE Network, cnMaestro facilitates the management of all devices through a user-friendly interface, streamlining control from backhaul to edge devices. This enables you to start managing your network right away, reducing training and troubleshooting time.

cnMaestro X Assurance

Gain real-time insights into network health and troubleshoot client issues efficiently using AI-based analytics to move from reactive to proactive SLA management.

Note: cnMaestro X Assurance is available with cnMaestro X Cloud.

X7-35X Wi-Fi 7 Indoor Access Point

Access Point Specifications	
Radios	2.4 GHz 2x2:2 with 802.11 b/g/n/ax/be 5 GHz 2x2:2 with 802.11 a/n/ac/ax/be 6 GHz 2x2:2 with 802.11 ax/be
BLE and Zigbee	Built-in BLE or 802.15.4 radio Max Transmit power 20 dBm with the integrated 5 dBi omnidirectional antenna gain *Matter and Thread support (*Will be supported in future releases)
Supported data rates	802.11be: 7.3 to 5765 Mbps 802.11ax: 7.3 to 2402 Mbps 802.11ac: 6.5 to 1733 Mbps 802.11n: 6.5 to 300 Mbps 802.11a/g and a: 6 to 54 Mbps 802.11b: 1 to 11 Mbps
Max PHY Rate	2.4 GHz: 574 Mbps 5 GHz: 2882 Mbps 6 GHz: 5765 Mbps
Antenna	Omnidirectional internal antennas (Peak gain) 2.4 GHz: 5 dBi 5 GHz: 6 dBi 6 GHz: 6 dBi BLE and Zigbee: 5 dBi
Maximum Radio Tx Power* (combined Tx power across all Tx chains)	2.4 GHz: 24 dBm, max EIRP: 29 dBm 5 GHz: 25 dBm, max EIRP: 31 dBm 6 GHz: 25 dBm, max EIRP: 31 dBm
MIMO Support	2x2 (2.4 GHz, 5 GHz, and 6 GHz) SU-MIMO 2x2 (2.4 GHz, 5 GHz, and 6 GHz) MU-MIMO both in UL and DL direction
USB Interface	1 USB 2.0 type A port, max 1.5 W power supply
Ethernet Interface	1 100 Mbps/ 1 Gbps / 2.5 Gbps PoE port
Power	Max power consumption 25.5W (802.3at) Typical power consumption with BLE / 802.15.4 radio enabled: 10.6W LLDP power negotiation support
Dimensions	209.6 mm x 209.6 mm x 45 mm 8.25 in x 8.25 in x 1.77 in
Weight	Weight: 935 gm (2.06 lb)
Mount Options	Drop ceiling T-bar, ceiling tile, 4" square electrical box, 4" round box, NA single gang box, EU single gang box, wall mount
Physical Security	Kensington lock slot

LEDs	Multicolor status LED
	   Blue: Managed from cnMaestro
	   Green: Up and running, not managed from cnMaestro
	   Amber: Booting

Ambient Operation Temperature	0°C - + 50°C
Storage Temperature	-20°C - + 70°C
Operating Humidity	95% RH non-condensing
Reliability	MTBF 8,29,316 hours at +25°C operating temperature

X7-35X Wi-Fi 7 Indoor Access Point

Access Point Specifications, continued

Device Management	cnMaestro Cloud / On-Premises management (version 5.1 and above) Standalone operation mode Web access with HTTPs / HTTP protocol CLI access with SSH / telnet protocols
Certifications (Compliance)	FCC, IC, CE E 60601-1-2 EN 60950-1 IEC 62368-1 Safety EN 60601-1-2 Medical EMC EN 61000-4-2/3/5 Immunity UL 2043 Plenum EN 62311 Human Safety/RF Exposure WEEE REACH and RoHS *Wi-Fi certified a, b, g, n, ac, ax, be; WMM; spectrum and regulatory; Wi-Fi agile multiband; PMF; WAP2 and WPA3 PSK personal and enterprise *Will be supported in future releases

Network Specifications

Security & Authentication	Open, WPA, WPA2-PSK AES WPA2-ePSK / WPA2-Enterprise WPA3-PSK (WPA3-SAE) / WPA3-ePSK / Enterprise / Enterprise-CNSA / OWE (Enhanced Open) OSEN and PMF (802.11 W) MAC authentication with local database or external database using RADIUS protocol EAP-TLS / TTLS / PEAP / SIM / AKA Hotspot WEB authentication
Fast Roaming Support	PMK, OKC, and 802.11r for fast layer 2 roaming Seamless L2 roaming for wireless and guest clients across APs in the same L2 network cnMaestro-assisted roaming for the guest clients
Wi-Fi Quality of Service	WMM (packet marking either with 802.1p or IP DSCP), WMM-PS, U-APSD Multicast to unicast conversion
MESH Support	Auto-discovery and self-healing Wireless MESH support on 2.4 GHz, 5 GHz, and 6 GHz band MESH and Client SSIDs can co-exist on the same radio interface
SSID	16 SSIDs per radio, 48 SSIDs per AP SSID scheduling
Client Capacity	256 clients per radio, 768 clients per AP Max client connections limit per SSID / radio / device
Band Steering	Yes
Sticky Client Management	Option to disconnect the client on minimum SNR threshold
Rate Limit	Per SSID / MAC
Dynamic RF Channel and Power Management	Auto-Channel selection Auto-RF dynamic channel switch based on channel utilization and Wi-Fi / non-Wi-Fi interferences Auto-RF dynamic power adjustment with the neighboring APs transmit power
WIDS and WIPS	Wireless packets flood (excessive association, authentication, de-authentication, disassociation, and EAP) detection Rogue AP, Honeypot AP detection and termination
Wireless Users Policy Management	Standard Radius, Accounting, WISPr, and Cambium VSA attributes support COA Messages (disconnect, VLAN ID, session, etc.) support User groups with RADIUS assigned filter rules
Wireless Devices Policy Management	Device grouping based on device fingerprinting with L2, L3, L4, and L7 access control rules

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Network Specifications, continued

Radius and Accounting Support	Per SSID based RADIUS and accounting server
	Accounting interval with start, stop, and interim messages with standard / Cambium VSA accounting attributes
	Up to 3 RADIUS and accounting server with failover and load balancing option
	Dynamic authorization and disconnect using COA messages
VLAN Assignment	Per SSID based 802.1q VLAN tagging
	Dynamic VLAN assignment from external RADIUS server
	Local VLAN pool
	Radius assigned VLAN pool
	ePSK assigned VLAN ID

Network Specifications, continued

ACL and Application Control Rules	Per SSID or device level, layer 2, 3 (IPv4 and IPv6), 4 and 7 access control rules with packet marking option
	Application recognition, packet marking, rate limiting, and option to drop and deny application / application category
	Per SSID DNS ACL option
	Define custom application based on IP address and monitor/control custom application traffic
Connection Logging	Per SSID basis option to log TCP, UDP and IP connection, and DNS query
	NAT logging to external syslog servers
IP Support	IPv4 and IPv6
Tunneling Protocols	WWAN, PPPoE, L2TPv2, L2GRE, & *VXLAN (*Will be supported in future releases)
SNMP and Syslogs Support	SNMP v2 and v3 get operational mode
	Syslog messages to external syslog server
DHCP Client and Server	Option to enable DHCP client on L3 VLAN interface
	On-board DHCP server with multiple DHCP pool options
Analytics and location Service	Option to integrate Wi-Fi and BLE radios scan results with an external location analytics server through HTTP/HTTPs post
Client Connection and Life Cycle Analytics (available with cnMaestro X Cloud)	Exhaustive client life cycle analytics with root cause analysis Connection success and failure analytics Disconnection analytics Client dashboard with roaming history
Guest Access Service (EasyPass) (X Features are available on cnMaestro X)	cnMaestro hosted captive portal service Multiple authentication methods supported to on-board guest user - Radius based authentication - Click through with simple terms and conditions acceptance - Social login using Google®, Facebook®, Twitter® (aka, X), and Office 365® - SMS based authentication (X) - Voucher based access - Microsoft® Azure AD and Google Workspace® (X) - Sponsored guest access (X) - Self-registration access (X)	Guest access on-boarding using payment gateway vendors (X) - PayPal® - IPpay - Quickpay - Orange - Orange Money℠ - mPesa Integration with the third-party captive portal vendors appliance On-board captive portal service IP whitelist or walled garden list support Option to limit guest users' session, data quota limit, speed limits supported using Radius, WISPr, Cambium VSA and cnMaestro-hosted guest portal policy
Services	L2–L7 application visibility & control, Wi-Fi calling control, WIDS/WIPS, NTP, Syslog, SNMP traps, DNS proxy, auto-off on WAN failure, Open roaming (Will be supported in future releases)
API	RESTful management and statistics API presence location APIs

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Standards

Wi-Fi Protocols	802.11 b: BPSK, QPSK, CCK
	802.11 a/g/n: BPSK, QPSK, 16-QAM, 64-QAM
	802.11 ac: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
	802.11 ax: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM and 1024-QAM
	802.11be: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM, 1024-QAM, 4096-QAM
	20/40/80/160/320 MHz, DSSS, OFDM, OFDMA, MIMO, MU-MIMO
	Multi-link operation (MLO), Multi Resource Units
	Target Wait Time (TWT), BSS Coloring,
	Transmit beamforming (TxBF)
	802.11n/ac packet aggregation: A-MPDU, A-MSDU
	Maximum ratio combining (MRC), Cyclic delay/shift diversity (CDD/CSD),
	Space-time block coding (STBC), Low-density parity check (LDPC)
	Passpoint 3.0
	IEEE 802.11 b/g/n/ac/ax/be/d/h/i/k/r/u/w

Regulatory Information

Frequency Bands	2.412 to 2.484 GHz ISM	5.925 to 6.425 GHz U-NII-5
	5.150 to 5.250 GHz U-NII-1	6.425 to 6.525 GHz U-NII-6
	5.250 to 5.350 GHz U-NII-2A	6.525 to 6.875 GHz U-NII-7
	5.470 to 5.725 GHz U-NII-2C	6.875 to 7.125 GHz U-NII-8
	5.725 to 5.850 GHz U-NII-3	
Channels List	2.4 GHz channels: 1 to 13	
	5 GHz channels: 36 to 64, 100 to 144 and 149 to 165	
	6 GHz channels: 1 to 233	

EIRP limitations apply to the listed countries.
ROW Individual country limits may apply. Please contact your regional sales manager for country-specific regulations.

Europe, UK, USA, and Canada Regulatory Details

	2.4 GHz (EIRP)	6 GHz (EIRP)	
Band	2400 – 2483.5 MHz	5945 – 6425 MHz	6425 – 7125 MHz
Europe	20 dBm (100mW)	23 dBm (200mW) indoor	not supported
UK	20 dBm (100mW)	24 dBm (250mW) indoor	not supported
USA	36 dBm (4W)	30 dBm (1W) indoor	30 dBm (1W) indoor
Canada	36 dBm (4W)	30 dBm (1W) indoor	30 dBm (1W) indoor

	5 GHz			
Band	5150 – 5250 MHz	5250 – 5350 MHz	5470 – 5725 MHz	5725 – 5875 MHz
Europe	23 dBm (200mW)	23 dBm (200mW)	30 dBm (1W)	14 dBm (25mW)
UK	23 dBm (200mW)	23 dBm (200mW)	30 dBm (1W)	23 dBm (200mW)
USA	36 dBm (4W)	30 dBm (1W)	30 dBm (1W)	36 dBm (4W)
Canada*	23 dBm (200mW)	30 dBm (1W)	30 dBm (1W)	36 dBm (4W)

*Canada restricts the use of 5600-5650 MHz for regulatory reasons

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Southeast Asia Regulatory Details

Band	2.4 GHz (EIRP)	6 GHz (EIRP)	
	2400 – 2483.5 MHz	5925 – 6425 MHz	6425 – 7125 MHz
Indonesia	27 dBm (500mW) indoor 36 dBm (4W) outdoor	not supported	not supported
Vietnam	23 dBm (200mW)		
Philippines	26 dBm (400mW)		
Malaysia	27 dBm (500mW)	23 dBM (200mW) indoor	
Singapore	23 dBm (200mW)	24 dBm (250mW) indoor 14 dBm (25mW) outdoor	
Thailand	20 dBm (100mW)	24 dBm (250mW) indoor 14 dBm (25mW) outdoor	

	5 GHz (EIRP)			
Band	5150 – 5250 MHz	5250 – 5350 MHz	5470 – 5725 MHz	5725 – 5825 MHz
Indonesia	23 dBm (200mW) indoor	23 dBm (200mW) indoor	Not supported	23 dBm (200mW) indoor 36 dBm (4W) outdoor
Vietnam	23 dBm (200mW)	23 dBm (200mW)	30 dBm (1W)	30 dBm (1W)
Philippines	26 dBm (400mW)	26 dBm (400mW)	26 dBm (400mW)	26 dBm (400mW)
Malaysia*	30 dBm (1W) indoor 23 dBm (200mW) outdoor	30 dBm (1W) indoor	5470 – 5650 MHz 30 dBm (1W)	30 dBm (1W)
Singapore	23 dBm (200mW)	23 dBm (200mW)	30 dBm (1W)	30 dBm (1W)
Thailand	23 dBm (200mW)	23 dBm (200mW)	30 dBm (1W)	30 dBm (1W)

*Malaysia restricts the use of 5650-5725 MHz for regulatory reasons.

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Management

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 and upgrades to advanced features. Cambium Care Pro support included with 24x7 technical support with accelerated access to L2 engineers and regular software updates.
cnMaestro Essentials	License-free management that delivers a disruptive total cost of ownership (TCO) for organizations of all sizes.

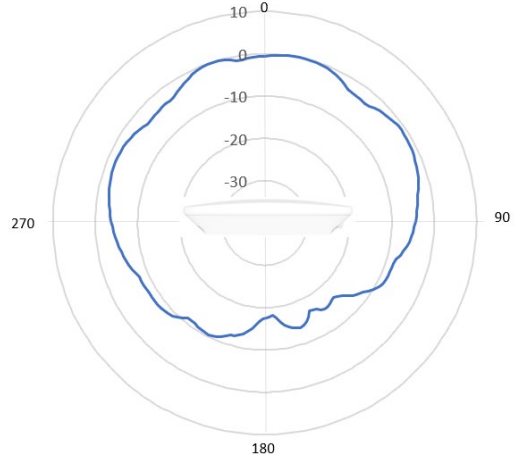Click for more information.

cnMaestro X

cnMaestro Essentials

X7-35X Wi-Fi 7 Indoor Access Point
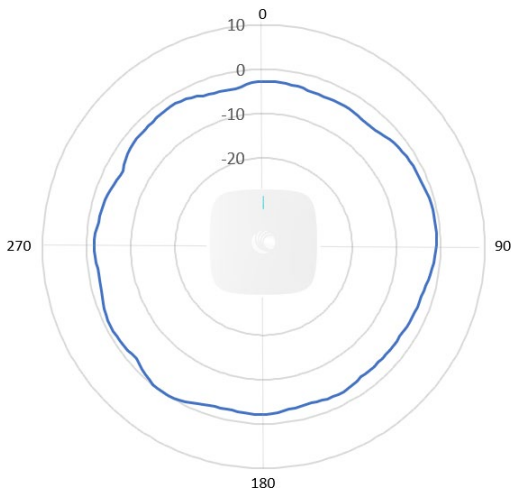
Antenna Patterns

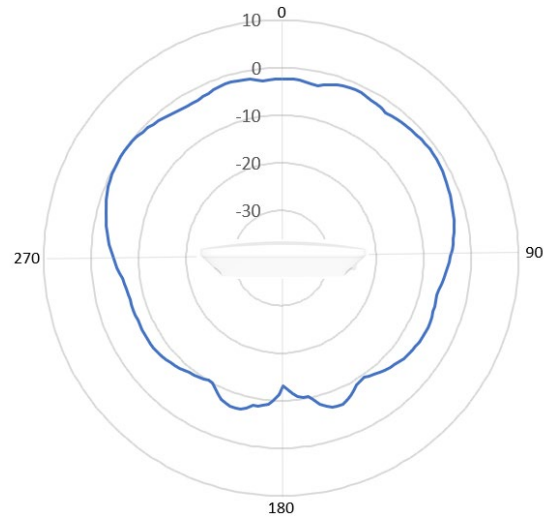### 5 GHz Antenna Normalized Azimuth Gain [dB]
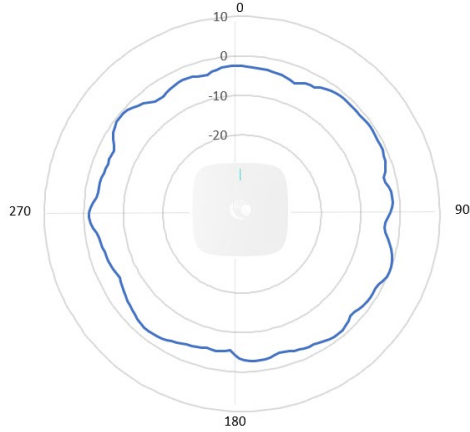
5 GHz Antenna Normalized Elevation Gain [dB]

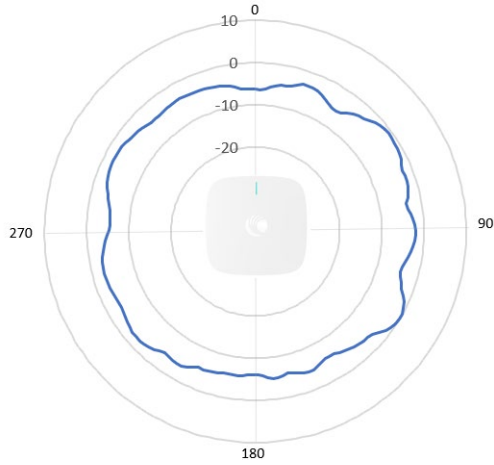### 2 GHz Antenna Normalized Azimuth Gain [dB]

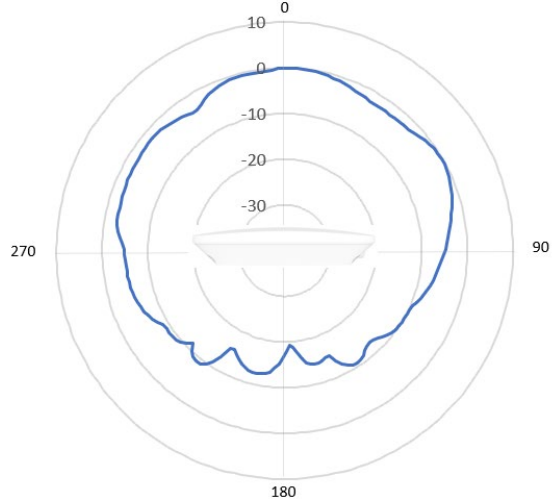### 2 GHz Antenna Normalized Elevation Gain [dB]

X7-35X Wi-Fi 7 Indoor Access Point
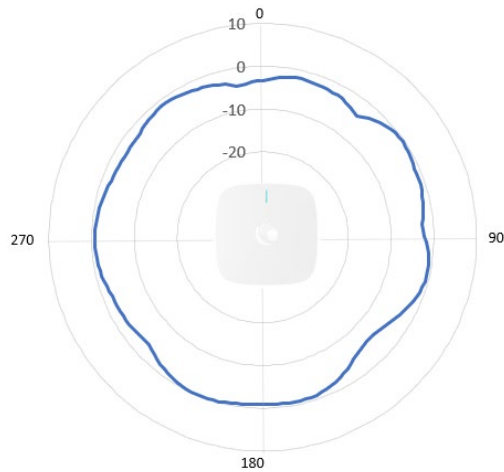
Antenna Patterns , continued
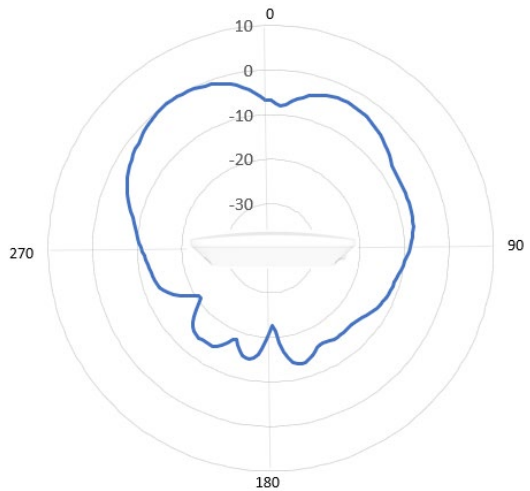
6 GHz Antenna Normalized Azimuth Gain [dB]

6 GHz Antenna Normalized Elevation Gain [dB]
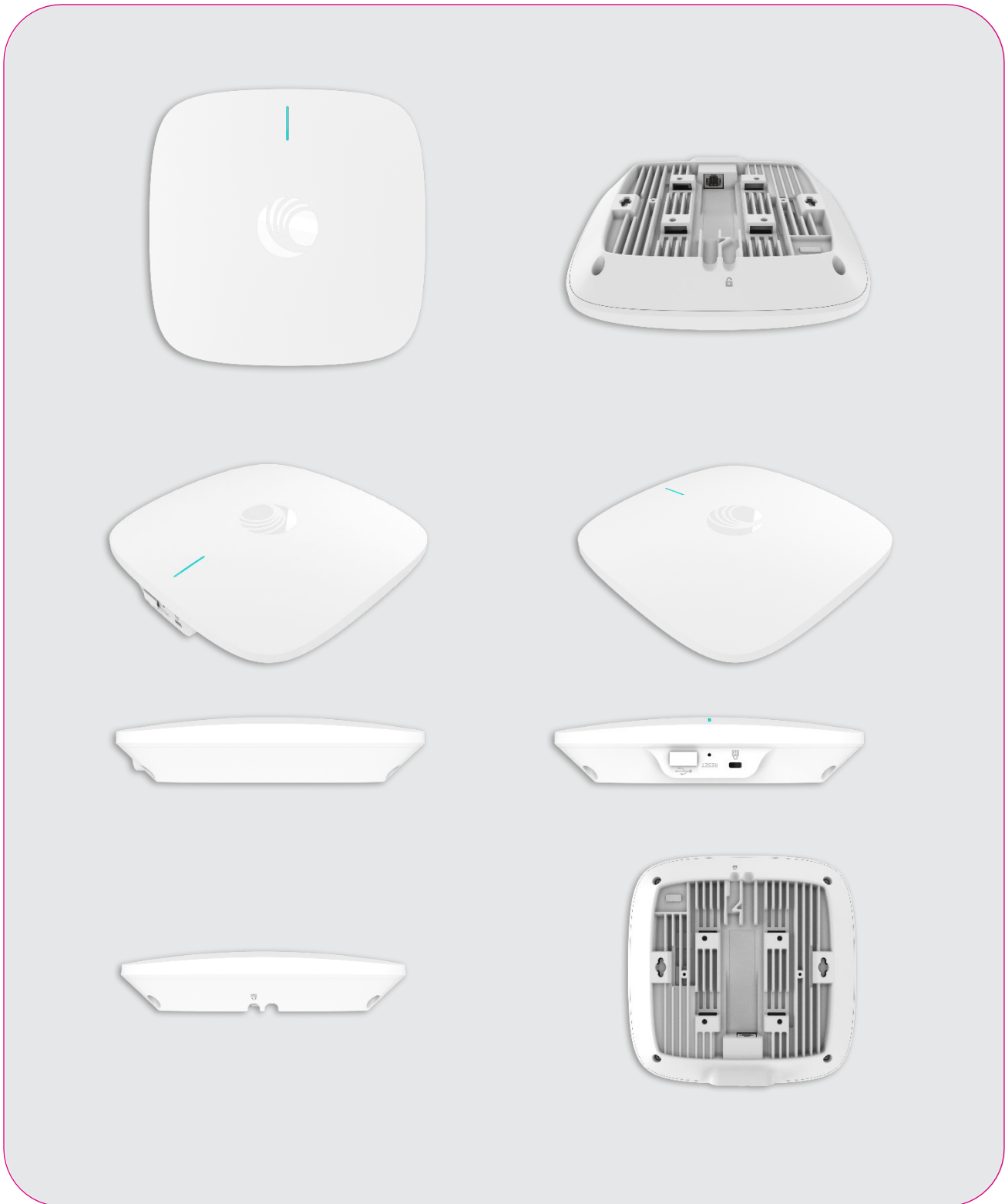

IoT Antenna Normalized Azimuth Gain [dB]

IoT Antenna Normalized Elevation Gain [dB]

X7-35X Wi-Fi 7 Indoor Access Point

X7-35X Wi-Fi 7 Indoor Access Point

Ordering Information	
Regulatory Model	X7-35X
X7-35X-0A00-CA	X7-35X Indoor Tri-band Wi-Fi 7 AP 2x2. 6GHz radio enabled. 2.5GbE. CA
X7-35X-0A00-EU	X7-35X Indoor Tri-band Wi-Fi 7 AP 2x2. 6GHz radio enabled. 2.5GbE. EU
X7-35X-0A00-RW	X7-35X Indoor Tri-band Wi-Fi 7 AP 2x2. 6GHz radio disabled. 2.5GbE. ROW
X7-35X-0A00-US	X7-35X Indoor Tri-band Wi-Fi 7 AP 2x2. 6GHz radio enabled. 2.5GbE. US
X7-35X-0A06-RW	X7-35X Indoor Tri-band Wi-Fi 7 AP 2x2. 6GHz radio enabled. 2.5GbE. ROW
N000000L034B	PoE, 30.5W, 56V, GbE DC Injector, Indoor, Energy Level 6 Supply, accepts C5 connector

cnMaestro X Subscriptions	
MSX-SUB-X7-35X-1	cnMaestro X 1-Year subscription for one X7-35X AP. Creates one device Tier3 slot. Includes Cambium Care Pro support. Order CCADV-UPG-X7-35X-1 for NBD advanced replacement hardware support.
MSX-SUB-X7-35X-3	cnMaestro X 3-Year subscription for one X7-35X AP. Creates one device Tier3 slot. Includes Cambium Care Pro support. Order CCADV-UPG-X7-35X-3 for NBD advanced replacement hardware support.
MSX-SUB-X7-35X-5	cnMaestro X 5-Year subscription for one X7-35X AP. Creates one device Tier3 slot. Includes Cambium Care Pro support. Order CCADV-UPG-X7-35X-5 for NBD advanced replacement hardware support.
MSX-RNW-X7-35X-1	cnMaestro X 1-Year renewal for one X7-35X AP. Creates one device Tier3 slot. Includes Cambium Care Pro support. Order CCADV-UPG-X7-35X-1 for NBD advanced replacement hardware support.
MSX-RNW-X7-35X-3	cnMaestro X 3-Year renewal for one X7-35X AP. Creates one device Tier3 slot. Includes Cambium Care Pro support. Order CCADV-UPG-X7-35X-3 for NBD advanced replacement hardware support.
MSX-RNW-X7-35X-5	cnMaestro X 5-Year renewal for one X7-35X AP. Creates one device Tier3 slot. Includes Cambium Care Pro support. Order CCADV-UPG-X7-35X-5 for NBD advanced replacement hardware support.

X7-35X Wi-Fi 7 Indoor Access Point

Cambium Care Support	
CCPRO-SUP-X7-35X-1	Cambium Care Pro, 1-year support for one X7-35X. 24x7 TAC support, SW updates
CCPRO-SUP-X7-35X-3	Cambium Care Pro, 3-year support for one X7-35X. 24x7 TAC support, SW updates
CCPRO-SUP-X7-35X-5	Cambium Care Pro, 5-year support for one X7-35X. 24x7 TAC support, SW updates
CCADV-SUP-X7-35X-1	Cambium Care Advanced, 1-year support for one X7-35X Wireless AP. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-SUP-X7-35X-3	Cambium Care Advanced, 3-year support for one X7-35X Wireless AP. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-SUP-X7-35X-5	Cambium Care Advanced, 5-year support for one X7-35X Wireless AP. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-X7-35X-1	Cambium Care Advanced Add-on to cnMaestro X, 1-year support for one X7-35X. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-X7-35X-3	Cambium Care Advanced Add-on to cnMaestro X, 3-year support for one X7-35X. 24x7 TAC support, SW updates, and NBDS advance replacement for HW
CCADV-UPG-X7-35X-5	Cambium Care Advanced Add-on to cnMaestro X, 5-year support for one X7-35X. 24x7 TAC support, SW updates, and NBDS advance replacement for HW

Limited Lifetime Warranty

Cambium Networks X7-35X Wi-Fi 7 Access Point includes a limited lifetime hardware warranty for a period of 5 years after end of sale

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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