cnPilot e425, e430 Wall Plate Wi-Fi Access Points

802.11ac Wave 2 Wall Plate Access Point with Multi-Function Ethernet Ports

QUICK LOOK:

Cambium Networks wall plate access points (AP) put personal Wi-Fi in the room where people and devices connect. Designed for discreet installation on a flat wall surface or over a wiring box. Both of these high-powered wall plate AP's include enterprise-grade seamless roaming, automated RF control, beamforming and the latest 802.11ac Wave 2 technology.

e425	e430
802.11a/b/g/n/ac Wave 2	
5 GHz (2x2), 2.4 GHz (2x2)	
e425: passive PoE out; e430: 802.3af compliant PoE out	
25 dBm EIRP (5 GHz); 27 dBm EIRP (2.4 GHz)	25dBm EIRP (5 GHz); 26dBm EIRP (2.4 GHz)
Three-Gigabit Ethernet	Four-Gigabit Ethernet

cnMaestro READY

CLOUD-MANAGED ACCESS

All cnPilot access points are managed by cnMaestro™ from the cloud, an on-premises VM or a private datacenter. cnMaestro provides single-pane-of- glass dashboard for Wi-Fi, Ethernet, fixed wireless broadband and service provider home routers.

• Zero-touch onboarding

• Inventory reports, mass configuration and upgrade

• Dashboard views with alarms and key performance metrics

• Remote troubleshooting tools

• Hierarchical device organization

• Cloud managed guest portal with social login, vouchers, rate, time and throughput limits

cnMaestro Essential cloud management is included at no additional cost. There are no setup fees, licenses or recurring costs. cnMaestro includes detailed network statistics, channel utilization graphs, and integrated remote troubleshooting tools to ensure service is always on. Wall plate AP's are ideal for hotels, dormitory housing, MDU, and micro-cell Wi-Fi where fast installation and discreet aesthetics are desired.

DO-NOT-DISTURB HOTEL DESIGN

Hotel guests connect to Wi-Fi before turning on the TV. Wi-Fi is a must-have to stay connected with coworkers, family and social media. With the cnPilot™ e425 and e430 wall plate AP, the guest will be delighted with a perfect connection to all their devices. Customize the cloud-managed guest access with a fully configurable cloud portal with templates, point and click interface, or HTML CSS.

DESIGNED FOR FAST INSTALLATION

e425 and e430 install quickly over a standard wiring box, or to other boxes and surfaces using the optional mounting adapters. e425 has three gigabit Ethernet ports, while the e430 has four gigabit Ethernet ports. All ports support 802.1Q VLANs, IGMP, switched virtual interface layer 3 routing, DHCP, and firewall. Deliver 15 watts of operating power to an external device such as a VoIP phone, an in-room IoT hub or even another AP. VLAN and IP segmentation allows secure connections to a TV set-top box, laptop, printer, or any networked device.

cambiumnetworks.com

cnPilot e425, e430 Indoor Wi-Fi Access Points

Access Point Specifications

	e425	e430
US-FCC **ISED Canada** **EU-ETSI** **ROW**	Ch 1-11, 36-64, 100-144, 149-165 Ch 1-11, 36-64, 100-116, 149-165 Ch 1-13, 36-64, 100-140 Ch 1-13, 36-64, 100-144, 149-173 *Individual country limits apply*	Ch 1-11, 36-64, 100-144, 149-165 Ch 1-11, 36-64, 100-116, 149-165 Ch 1-13, 36-64, 100-140 Ch 1-13, 36-64, 100-144, 149-173 *Individual country limits apply*
Radios	1 x 5 GHz radio (802.11a/n/ac Wave 2), 2x2 1 x 2.4 GHz (802.11b/g/n), 2x2 SU-MIMO / MU-MIMO: 2 streams	1 x 5 GHz radio (802.11a/n/ac Wave 2), 2x2 1 x 2.4 GHz (802.11b/g/n), 2x2 SU-MIMO / MU-MIMO: 2 streams Integrated Bluetooth Smart radio
Wi-Fi	802.11 a/b/g/n/ac Wave 2	802.11 a/b/g/n/ac Wave 2
SSID Security	WPA2 (802.11i), WPA2 Enterprise (802.1x/EAP), WPA PSK, Open	
Max PHY Rate	**2.4 GHz radio**: 300 Mbps	**5 GHz radio:** 867 Mbps
Ethernet	Three IEEE Gigabit Ethernet auto sensing	Four IEEE Gigabit Ethernet auto sensing
USB port	Yes	-
Antenna	Internal omni-directional **2.4 GHz:** 3.84 dBi **5 GHz:** 4.08 dBi	Internal omni-directional **2.4 GHz:** 3.57 dBi **5 GHz:** 4.96 dBi
Max EIRP	**2.4 GHz:** 27 dBm **5 GHz:** 25 dBm (EIRP limited by country regulations)	**2.4 GHz:** 26 dBm **5 GHz:** 25 dBm (EIRP limited by country regulations)
WLAN	100 clients per radio,32 SSIDs (16 per radio) WPA-TKIP, WPA2 AES, 802.1x, 802.11w PMF	256 clients per radio, 32 SSIDs (16 per radio) WPA-TKIP, WPA2 AES, 802.1x, 802.11w PMF
Power	802.3af or 802.3at powered device Typical load, no power out: 8W (12.95W max) Typical load, with 15.4W power out: 24W (25.5W max)	Typical load, no power out: 9W (12.95W max) Typical load, with 15.4W power out: 25W (25.5W max) Power out: 15.4W when input is 802.3at 2.1 mm DC barrel connector, 48V
MTBF	511k hours at 25ºC; 121.79k hours 45ºC	261k hours at 25ºC, 121.79k hours 45ºC
Dimensions	147 mm x 94 mm x 32 mm (5.79 in x 3.7 in x 1.26 in)	147 mm x 94 mm x 32 mm (5.79 in x 3.7 in x 1.26 in)
Weight	268 g (0.59 lb)	390 g (0.86 lb)
Security	Kensington lock slot, secure bracket	Kensington lock slot, secure bracket
LEDs	Tri-color status LEDs	Tri-color status LEDs
Ambient Operation Temperature	0ºC to 40ºC (32ºF to 104ºF)	0ºC to 40ºC (32ºF to 104ºF)
Storage Temperature	-40ºC to 70ºC (-40ºC to 158ºF)	-40ºC to 70ºC (-40ºC to 158ºF)
Humidity	95% RH non-condensing	95% RH non-condensing
Certifications (compliance)	802.11u, HotSpot 2.0, 802.11 a/b/g/n/ac, PP2.0	FCC, IC, ETSI, CE, EN 60601-1-2, IEC60950

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Network Specifications

Authentication Encryption	802.1x EAP-SIM/AKA/AKA'/FAST, EAP-PEAP, EAP-TTLS, EAP-TLS/MSCHAPv2, PEAPv0/PEAPv1 MAC authentication to local database (on AP, on Controller) or external RADIUS. MAC auth fallback to guest portal	**Network**	NAT, NAT logging firewall, DOS protection, L2/L3/DNS ACL, DHCP server, DHCP Relay option 82 LLDP, IGMP v1, v2 VLAN Pooling, RADIUS attribute VID VLAN per SSID, per user Integrated WIDS (wireless intrusion detection)
Scheduled WLAN	On/off by day, week, time of day		
APIs	RESTful management and statistics API Presence location API Splunk WebSocket integration, WebSocket DNS, NAT, TCP connection log	**Band Steer Load Balance**	Yes
QoS	802.11e/WMM QoS. DSCP/ToS mapping	**Tunnel**	L2TPv2, L2GRE, PPPoE
VLAN	802.11Q, max 4096	**Network and RF Management Tools**	Out-of-band RF spectrum analysis, RF monitor with channel/noise/interference, wired and wireless remote packet capture, ZapD performance tool, rogue AP detection
Fast Roaming	802.11r, OKC, cnMaestro assisted roam		
Sticky Client	Enhanced roaming with thresholds		
Mesh	Multi-hop (2), either band		
Channel Selection	Auto RF: Manual, or automatic		

Management

Interfaces	HTTP / HTTPS web interface, SSH, Telnet SNMP V1, V2, V3 Syslog, SNMP traps, NTP	**Captive Portal**	Portal features hosted on cnMaestro: Design templates, customization tools supports 3rd party external portal RADIUS/LDAP/Click Through authentication Active Directory, Google, Facebook, Office 365, OAuth 2.0 Data Rate/Throughput limits, Time duration Portal features hosted on the AP: supports 3rd party external portal RADIUS/LDAP/Click Through authentication Data Rate/Throughput limits, Time duration
Deployment	cnMaestro Cloud, cnMaestro on-premises, Standalone AP		
Services	Monetized guest portal with design tools		
		Hotspot 2.0	802.11u, HotSpot 2.0
		Accounting	RADIUS accounting, load balancing AAA servers, Dynamic Authorization COA, DM
		Service Availabilty	Critical network resource monitor with SSID shutdown

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e430H Solution Architecture View

Role Based Access Control

RADIUS Authentication Server

APIs

cnMaestro Controller

Wi-Fi Devices

PoE Powered IP Phone

Eth: IPTV Set-top Box

Eth connected clients

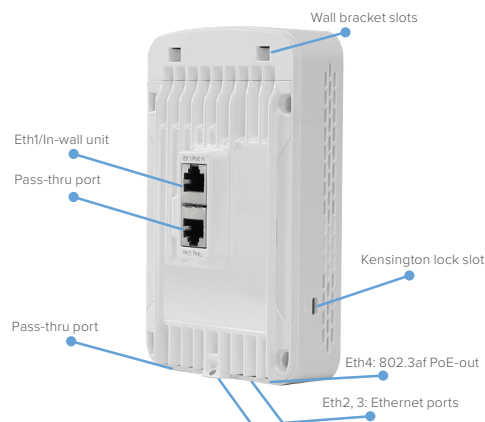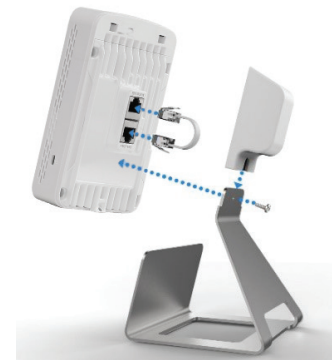Pass-thru non-IP devices

e430H Radio Unit and Accessories

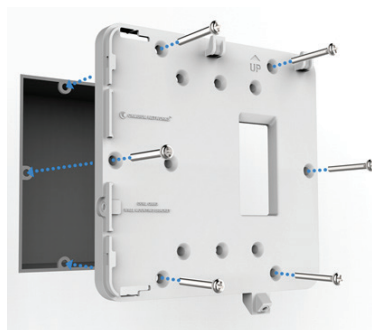Dual band 2x2 802.11ac Wave 2 MU-MIMO + Integrated BLE

e430H Radio Front Facing

Wall bracket slots

Eth1/In-wall unit

Pass-thru port

Pass-thru port

Kensington lock slot

Eth4: 802.3af PoE-out

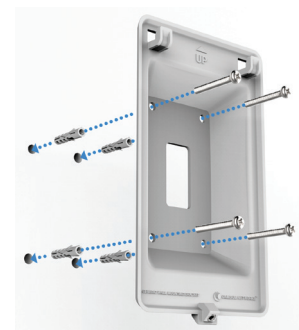Eth2, 3: Ethernet ports

e430H Radio Rear Facing

Optional Accessory: Desktop Stand
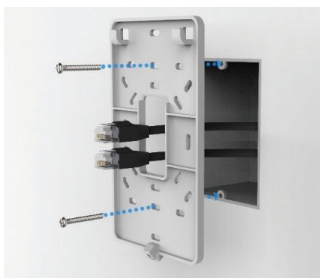
**Optional Accessory:
Single-Gang Bracket**
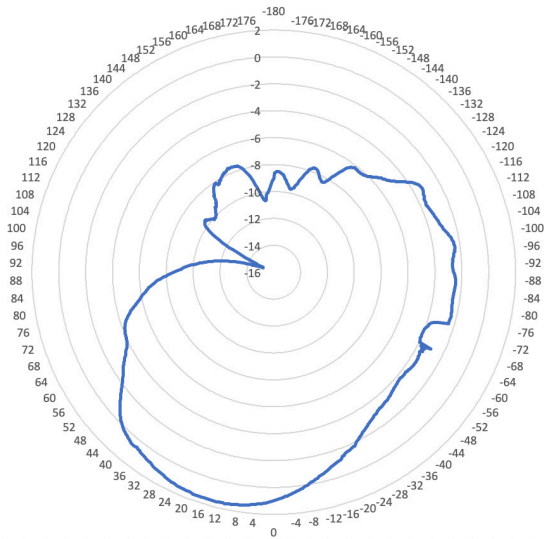
**Optional Accessory:
Dual-Gang Bracket**

**Optional Accessory:
Generic Wall Bracket**

The e430H is designed to be powered by an external PoE injector. Alternatively, it may be powered by an external 48V/1A DC adapter (sold separately). Other optional accessories are available for separate purchase.
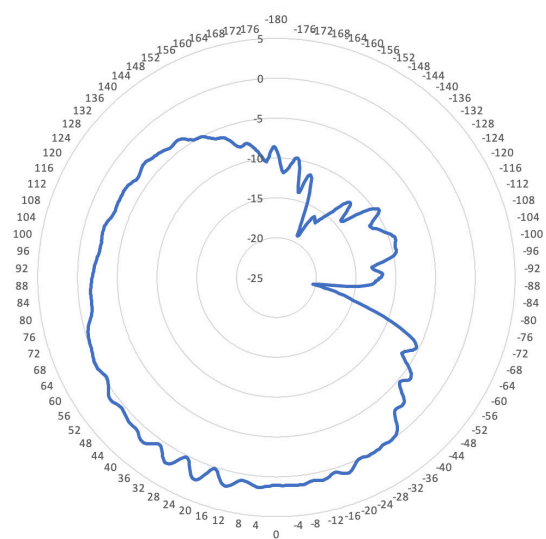
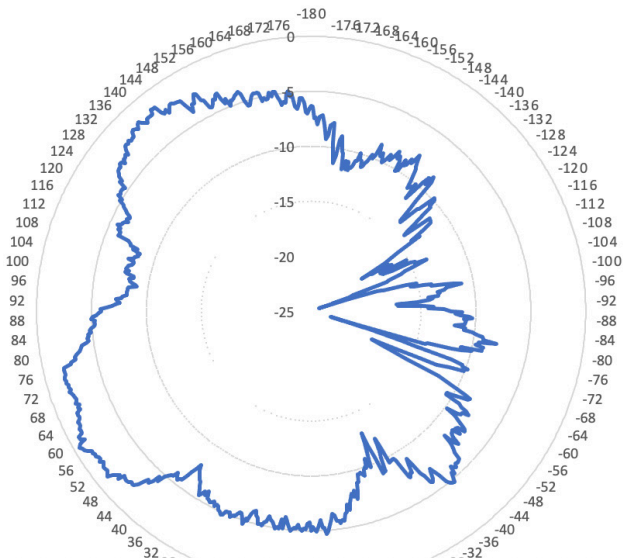# cnPilot e425, e430 Indoor Wi-Fi Access Points
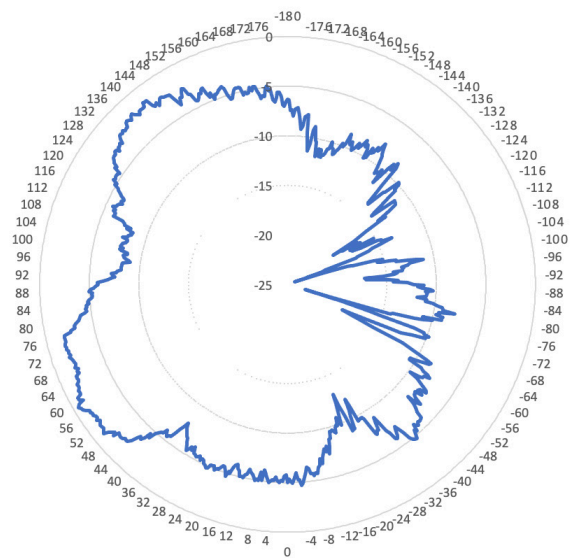
e425 Antenna Patterns

2.4 GHz Elevation

2.4 GHz Azimuth

5 GHz Elevation

5 GHz Azimuth

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e430 Antenna Patterns

2.4 GHz Elevation

2.4 GHz Azimuth

5 GHz Elevation

5 GHz Azimuth
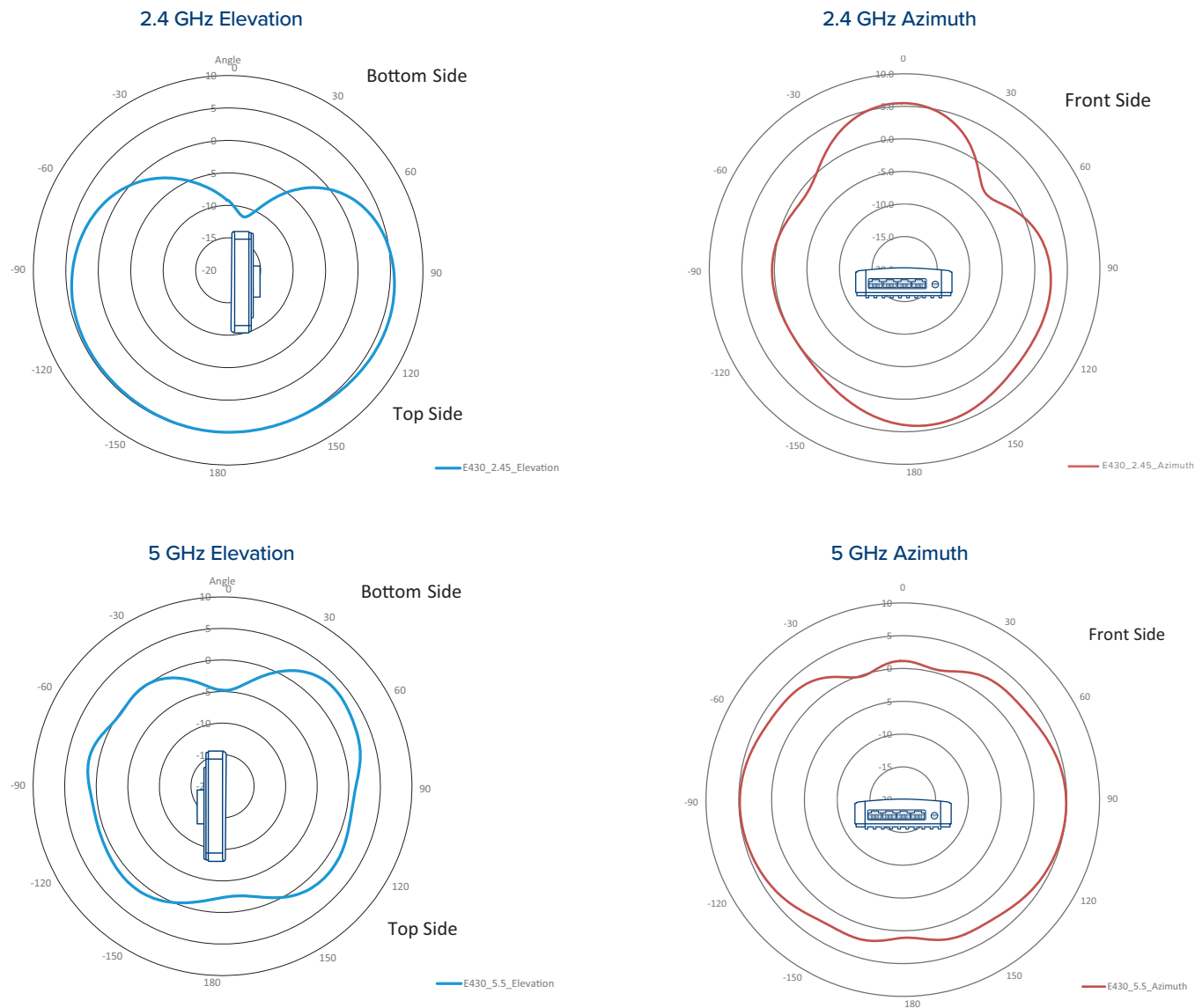
Standards

Wi-Fi Protocols	VHT MCS rates, 16/64/256-QAM, HT20/40/80 MHz
	Transmit beamsteering, 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

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Ordering Information

PL-E425H00A-US	e425H Indoor (FCC) 802.11ac Wave 2, Wall plate WLAN AP w/ single-gang wall bracket
PL-E425H00A-EU	e425H Indoor (EU) 802.11ac Wave 2, Wall plate WLAN AP w/ single-gang wall bracket
PL-E425H00A-RW	e425H Indoor (ROW) 802.11ac Wave 2, Wall plate WLAN AP w/ single-gang wall bracket
PL-E425H00A-IL	e425H Indoor (Israel) 802.11ac Wave 2, Wall plate WLAN AP w/ single-gang wall bracket
PL-E425H00A-CA	e425H Indoor (Canada) 802.11ac Wave 2, 2x2, Wall plate AP with single-gang wall bracket
PL-E425H00A-US	e425H Indoor (FCC) 802.11ac Wave 2, Wall plate WLAN AP w/ single-gang wall bracket
PL-E430H00A-US	e430H Indoor (FCC) 802.11ac Wave 2, 2x2, Wall plate WLAN AP with single-gang wall bracket
PL-E430H00A-EU	e430H Indoor (EU) 802.11ac Wave 2, 2x2, Wall plate WLAN AP with single-gang wall bracket
PL-E430H00A-RW	e430H Indoor (ROW) 802.11ac Wave 2, 2x2, Wall plate WLAN AP with single-gang wall bracket
PL-E430H00A-EG	e430H Indoor (EG) 802.11ac Wave 2, 2x2, Wall plate WLAN AP with single-gang wall bracket
PL-DUWLGNGB-WW	e430H Wall bracket single gang junction box
PL-SNWLGNGB-WW	e430H Wall bracket single gang junction box
PL-WALLMNTB-WW	e430H Wall bracket generic wall mounting of AP
AX-ETHJMPRA-WW	Flat Cat6 Ethernet Cable, 50mm
PL-DTSTANDB-WW	e430H Desktop Stand

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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Cambium Care Ordering Information

CCADV-SUP-XV3-8-1	Cambium Care Advanced, 1-year support for one cnPilot cnPilot e425 or e430 AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCADV-SUP-XV3-8-3	Cambium Care Advanced, 3-year support for one cnPilot cnPilot e425 or e430 AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCADV-SUP-XV3-8-5	Cambium Care Advanced, 5-year support for one cnPilot cnPilot e425 or e430 AP. 24x7 TAC support, SW updates, and NBD advance replacement for HW
CCPRO-SUP-XV3-8-1	Cambium Care Pro, 1-year support for one cnPilot cnPilot e425 or e430 AP. 24x7 TAC support and SW updates
CCPRO-SUP-XV3-8-3	Cambium Care Pro, 3-year support for one cnPilot cnPilot e425 or e430 AP. 24x7 TAC support and SW updates
CCPRO-SUP-XV3-8-5	Cambium Care Pro, 5-year support for one cnPilot cnPilot e425 or e430 AP. 24x7 TAC support and SW updates

LIMITED WARRANTY

Cambium Networks cnPilot e425 and e430H are covered by a limited lifetime hardware warranty for a period of 5 years after point 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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