cnPilot e425H Indoor

802.11ac Wave 2, Indoor Wall Plate

The Cambium Networks cnPilot™ e425H enterprise class indoor wall plate access point supporting 802.11ac Wave 2 standards based beamforming, is perfect for hotels and resorts, multi-dwelling units (MDUs) or just about any place indoor that needs a wall mounted AP with multiple Gig E ports to drive indoor Wi-Fi and wired port network access managed via portals.

CONTROLLER MANAGED + AUTONOMOUS

Managed by Cambium Networks' cnMaestro™ cloud controller or On- premises controller, the cnPilot e425H management includes:

- Zero touch onboarding • Inventorytracking
- Monitoring • Configuration • Dashboard views with alarms
- Mass upgrade • Troubleshooting
- Wireless and Wired port splash page guestportal

CONTROLLER-LESS ROAMING. POWERFUL SIMPLICITY

The e425H supports network wide seamless roaming for up to 1,024 clients. Host the hotspot portal on the AP for controller-less simplicity, or on cnMaestro for a powerful network wide portal.

MONETIZE: VOUCHERS. SOCIAL LOGIN

Monetize your Wi-Fi service: cnMaestro's guest access feature supports splash page hosting, social login and payment gateway for wired and wireless clients. Built-in power packed features available right on the controller. These features along with the ability to create time, rate and volume limited traffic profiles along with vouchers for temporary guest access makes the e425H ideal for hotels, coffee shops, campgrounds, and office guest Wi-Fi.

SERVICE AWARE WLANS. BETTER USER EXPERIENCE

Nothing is more frustrating than connecting to an AP, but not getting to the internet because the WAN link is down. When connection to a critical resource such as an external Gateway or AAA is down, the e425H monitors the uplink Gigabit interface for network outage. If an outage is detected, the impacted WLANs are disabled enabling client devices to select a neighboring AP.

WI-FI MESH. FLEXIBILITY

Meshing is supported across e425Hs as well as with any other indoor or outdoor Cambium Networks AP Enterprise AP, for a convenient way to expand Wi-Fi coverage without laying out cabling.

COVERAGE, CAPACITY. SPEED

The e425H packs strong transmit power and the flexible controls needed to control transmit power for high density deployments. Throughput management via airtime fairness, increased performance from autoRF, and higher client device speeds from band steering ensure your e425H network can adapt to the dynamics of ever changing client profiles.

HIGH DENSITY, HIGHLY AVAILABLE

A capacity of 100 max concurrent client associations, and 16 SSIDs, along with dual on-board Active/Standby memory banks ensure the e425H combines high density with high availability.

LOW TOTAL COST OF OPERATIONS (TCO) LICENSE FREE OPTION

All cnPilot access points offer total management flexibility. The e425H can be managed as a standalone access point, from an on-premises cnMaestro controller, or a cloud accessed cnMaestro account. cnPIlot access points also support AutoPilot, allowing one AP to be a controller for a small network.

ACCESSORIZE The e425H package comes with a single-gang wall mount bracket. Optional accessories also include on-wall and dual gang wall bracket.

WARRANTY Limited Lifetime Warranty (5 years)

SPECIFICATIONS

802.11ac CAPABILITIES

802.11a/b/g/n/AC wave 2, 2x2:2:2, MIMO, MU-MIMO, VHT MCS rates, 16/64/256-QAM, HT20/40/80 MHz, Transmit Beam steering, Airtime Fairness. Packet Aggregation (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

US-FCC
2400 – 2484 MHz, 5150 – 5250 MHz

Industry Canada (ISEDC)
2400 – 2484 MHz, 5725 – 5850 MHz

EU-ETSI
2400 – 2484 MHz, 5150 – 5250 MHz

ROW (individual country limits may apply. Consult DoC)
2400 – 2500 MHz, 5150 – 5850 MHz

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 Ports	Three IEEE Gigabit Ethernet auto sensing One GE is 802.3af PSE port
Antenna	Integrated dual polarized, omnidirectional 4dBi (2.4GHz) 4.29dBi (5GHz)
Max EIRP	2.4 GHz: 25 dBm 5 GHz: 25 dBm

Mount Options	Standard mount single gang J-box bracket included. Dual gang J-box bracket and flush box optional
Power	Typical, no PSE load: 9w Typical, with 802.3af PSE load: 25w Power: 802.3af or 802.3at PD PSE port: 802.3af with input 802.3at
Physical Environmental	USB 2.0 147mm x 94mm x 32mm 268g Kensington lock slot, secure bracket Tri-color status LEDs 0C - + 40C ambient op temp -40C - + 70C storage temperature 95% RH non-condensing MTBF: 249k @ 45c
Certifications	WiFi Alliance 80211a/b/g/n/ac, PP2.0 in process FCC, ETSI, CE, EN 60601-1-2, IEC60950

(EIRP may be limited by individual country regulation)

WLAN AND NETWORK SPECIFICATIONS

Controller mode	Controller-less standalone AutoPilot heterogeneous network Cloud managed cnMaestro On-premises cnMaestro VM
WLAN	100 clients, 16 SSIDs WPA-TKIP, WPA2 AES, 802.1x 802.11w PMF
Captive Portal	Hosted on cnMaestro Controller On-AP hosted guest portal Redirect to HTTP/RADIUS Server DNS logging
Authentication	Hotspot 2.0/Passpoint 2.0 802.1x EAP-SIM/AKA, EAP-PEAP, EAP-TTLS, EAP-TLS MAC authentication to local database or external RADIUS
Accounting	RADIUS accounting, multiple AAA
Scheduled WLAN	On/off by day, week, time of day
Guest Access	Vouchers, Rate Limit, Splash page hosted on AP or cnMaestro Client isolation per SSID, per network
Time/Data Limit	Time, Rate, Throughput limit per SSID
Subscriber QoS	WMM, client isolation network wide

Fast Roaming	802.11r, OKC, Enhanced roaming
Mesh	Multi-hop, either band
Channel Selection	autoTune: Manual, or automatic Selectable off-channel scan
Auto Tx Power	AutoRF: controller-less transmit power
Network	NAT, 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
Tools	Remote Packet capture, Channel/noise/interference analyzer, auto logging, ZapD performance test tool, rogue AP detection
Services	NTP, Syslog, SNMP traps, DNS proxy, auto-off on WAN failure
API	RESTful management and statistics API Presence location APIs

Side, bottom and back views

Wall mount bracket

SPECIFICATIONS

ORDERING INFOMATION	
PL-E425H00A-US	cnPilot e425H Indoor (FCC) 802.11ac wave 2, Wall plate WLAN AP w/ single-gang wall bracket
PL-E425H00A-CA	cnPilot e425H Indoor (CA) 802.11ac wave 2, Wall plate WLAN AP w/ single-gang wall bracket
PL-E425H00A-EU	cnPilot e425H Indoor (EU) 802.11ac wave 2, Wall plate WLAN AP w/ single-gang wall bracket
PL-E425H00A-RW	cnPilot e425H Indoor (ROW) 802.11ac wave 2, Wall plate WLAN AP w/ single-gang wall bracket
PL-E425H00A-IL	cnPilot e425H Indoor (IL) 802.11ac wave 2, Wall plate WLAN AP w/ single-gang wall bracket

Not all SKUs are available at first release. Consult Cambium distributor for country availability

ABOUT CAMBIUM NETWORKS

Cambium Networks is a leading global provider of wireless connectivity solutions that strengthen connections between people, places and things. Specializing in providing an end-to-end wireless fabric of reliable, scalable, secure, cloud-managed platforms that perform under demanding conditions, Cambium Networks empowers service providers and enterprise, industrial and government network operators to build intelligent edge connectivity. Cambium Networks' commitment to continuous innovation in wireless access is demonstrated in the millions of radios deployed in thousands of networks that benefit communities around the world. Team members also contribute to social responsibility activities to serve the communities in which they live. Headquartered outside Chicago and with R&D centers in the U.S., U.K. and India, Cambium Networks sells through a range of trusted global distributors.

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