cnPilot e430H Indoor

802.11ac Wave 2, Indoor Wall Plate

The Cambium Networks cnPilot™ e430H 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 e430H management includes:

• Zero touch onboarding • Inventory tracking

• Monitoring • Configuration • Dashboard views with alarms

• Mass upgrade • Troubleshooting

• Wireless and Wired port splash page guest portal

CONTROLLER-LESS ROAMING. POWERFUL SIMPLICITY

The e430H supports network wide seamless roaming for up to 2,048 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 e430H 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 e430H 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 e430Hs 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 e430H 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 e430H network can adapt to the dynamics of ever changing client profiles.

HIGH DENSITY, HIGHLY AVAILABLE

A capacity of 256 max concurrent client associations, and 16 SSIDs, along with dual on-board Active/Standby memory banks ensure the e430H combines high density with high availability.

LOW TOTAL COST OF OPERATIONS (TCO) LICENSE FREE OPTION

All cnPilot access points offer total management flexibility. The e430H 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 e430H package comes with a single-gang wall mount bracket. Optional accessories also include dual gang wall bracket or a desktop stand for small room table top retail outlets or dorm rooms installs.

WARRANTY Limited Lifetime Warranty (5 years)

SPECIFICATIONS

Access Point Specifications

Standards	IEEE 802.11a/b/g/n/ac Wave2	**Frequency Bands**	2.400 to 2.2484 GHz
	IEEE 802.11d/e/h/i/k/r/u/v/w	*(Country-specific limits apply, some bands require DFS)*	5.150 to 5.250 GHz
	Modulation: BPSK, QPSK, CCK, 16/64/256-QAM		5.250 to 5.350 GHz
	Radio modes : DSSS, OFDM		5.470 to 5.725 GHz
			5.725 to 5.850 GHz
MIMO, Streams	2x2:2 MU-MIMO	**Power Supply**	802.3af PoE Injector, or PoE switch. 48V DC.
			802.3at or PoE+ if using PoE-Out
Beamforming	Supported	**Dimensions**	14.7 x 9.4 x 3.4 cm (5.7 x 3.7 x 1.3 Inch)
Channel Width	20MHz, 40MHz, 80MHz	**Weight**	390 g (0.86 lb)
Concurrent Clients	256	**Operating Temperature**	0°C to +45°C (+32°F to +113°F)
SSIDs	16	**Operating Humidity**	5% to 95% non-condensing
Transmit Power	2.4GHz : 23dBm 5GHz : 21dBm	**Power Consumed**	9W (typical)
(conducted total)			25W (max, with PoE-out)
Antenna Gain	2.4GHz : 3.5dBi 5GHz : 4.9dBi	**LED**	Tri-color software controlled LED
Max Data Rate	2.4GHz : 400Mbps 5GHz : 867Mbps	**Secure Mounting**	Kensington Key Slot
Antenna	Omnidirectional, integrated	**MTBF**	1,025,801 hrs at 50C, 2,828,686 hrs at 25C
Bluetooth	Bluetooth 4 BLE Radio, 3.3dBi antenna		
Ethernet Ports	Four auto-sensing MDIX Gigabit Ethernet (10/100/1000 Mbps). One pass-through Port.	**Reset Button**	Supported
Radio Features	Maximum ratio combining (MRC)	**Certifications**	FCC, CE, IC, UL,
	Cyclic delay/shift diversity (CDD/CSD)		WEEE/RoHS compliance
	Space-time blocking coding (STBC)		
	Low-density parity check (LDPC)		
	Packet Aggregation: A-MPDU, A-MSDU		
Wi-Fi Alliance	Wi-Fi certified a,b,g,n, ac	**Mounting Options**	In wall single-gang bracket included.
	WPA2 – Enterprise, Personal		Accessories available: dual gang bracket, on-wall bracket, desktop stand.
	WMM		

Wi-Fi Features

Management Modes	cnMaestro cloud managed	**Wireless Security**	WPA-TKIP, WPA2-AES, 802.11i
	cnMaestro on-premises VM controller managed		WPA-PSK, WPA2-PSK, WPA2-Enterprise
	Autopilot (AP as controller)		802.1x Authentication with various EAP types (EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-AKA', EAP-FAST
	Standalone with AP GUI (http/https), CLI (telnet/ssh)		
			Protected Management Frames (802.11w)
RF Management	AutoRF automatically manages channel and power	**Dynamic SSID Service**	By time/date, by monitored host.
Guest Access Captive Portal	cnMaestro Controller Portal.	**MAC Authentication**	On-AP MAC filtering list.
	Integrates with 3rd party Guest Access Portals.		On-Controller MAC filtering list.
	Built-in Portal on AP.		RADIUS MAC Authentication.
	LDAP & RADIUS authentication.		MAC Authentication fallback to Captive Portal
	Walled Garden with DNS whitelist.		
	Wireless and Wired Clients supported.		
Rate Limiting	Per-client, Per-WLAN static and dynamic rate limiting	**Access Control Lists**	Layer-2, Layer-3, DNS
Client Isolation	On AP, Network-wide.	**3G/4G/LTE Offload**	Passpoint (Hotspot 2.0)
Fast Roaming	802.11r, Opportunistic Key Caching, Enhanced Roaming	**DHCP Relay**	Supported, with Option-82 customization
Airtime	Airtime Fairness, Band Steering, Band Balancing	**NMS Monitoring**	SNMP v1, v2c, v3
AAA Support	RADIUS Authentication, Accounting, Dynamic Authorization (CoA, DM). Server failover, load-balancing	**Client APIs**	Client Presence/Location API
			DNS, NAT and TCP Connecting Logging
QoS	802.11e/WMM QoS. DSCP/ToS mapping.	**Time Synchronization**	Auto (from controller), NTP
Ethernet (L2) Services	802.1p/802.q, RADIUS assigned VLAN, VLAN per SSID, VLAN pooling. LLDP. IGMP Snooping (V1/V2/V3).	**Troubleshooting Tools**	Packet Capture, Spectrum Analyzer,
			Ping, Traceroute, Syslogs
Mesh	WDS Mesh with Single and Multiple radio hops.	**Traffic Tunnels**	L2TP, L2oGRE, PPPoE
Network Services	NAT, DHCP Server		

THE 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
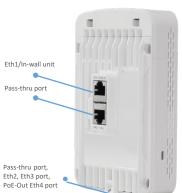
Pass-thru
non-IP devices

e430H – Radio unit and Accessories (optional)

e430H radio front facing

Aesthetically pleasing design
with a low profile to seamlessly
integrate in a hospitality or MDU.

e430H radio rear facing

Eth1/In-wall unit

Pass-thru port

Pass-thru port,
Eth2, Eth3 port,
PoE-Out Eth4 port

Optional Accessory: Desktop stand

Included: Single gang bracket

Optional Accessory: Dual gang bracket

Optional Accessory: Generic wall bracket
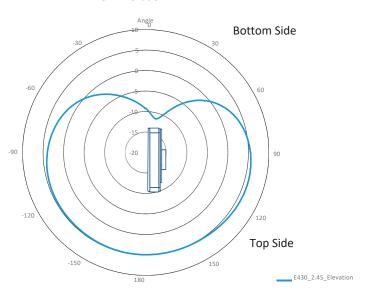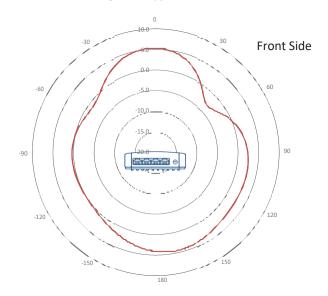
The e430H is designed to be powered by an external PoE Switch or PoE Injector. Alternatively, it may be powered by a 48V/1A DC adaptor (sold separately).

Other optional mounting accessories are available for separate purchase
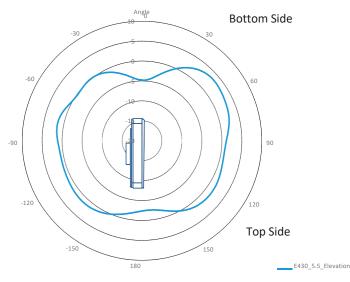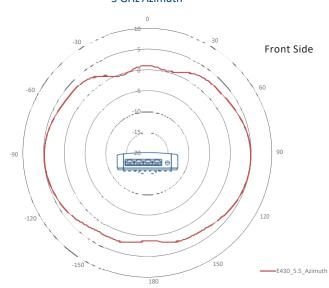
e430H Antenna Patterns

2.4 GHz Elevation

Bottom Side

Top Side

E430_2.45_Elevation

2.4 GHz Azimuth

Front Side

5 GHz Elevation

Bottom Side

Top Side

E430_5.5_Elevation

5 GHz Azimuth

Front Side

E430_5.5_Azimuth

Regulatory Model Number (common to all sales part #s): REG-	
PL-E430H Sales part #	Description
PL-E430H00A-US	cnPilot e430H Indoor (FCC) 802.11ac wave 2, Wall plate WLAN AP w/ single-gang wall bracket
PL-E430H00A-CA	cnPilot e430H Indoor (CA) 802.11ac wave 2, Wall Plate, WLAN AP w/single-gang wall bracket. Canada
PL-E430H00A-EU	cnPilot e430H Indoor (EU) 802.11ac wave 2, Wall plate WLAN AP w/ single-gang wall bracket
PL-E430H00A-RW	cnPilot e430H Indoor (ROW) 802.11ac wave 2, Wall plate WLAN AP w/ single-gang wall bracket
PL-E430H00A-IL	cnPilot e430H Indoor (Israel) 802.11ac wave 2, Wall plate WLAN AP w/ single-gang wall bracket
Discover more information on cnPilot WLAN solutions at: http://community.cambiumnetworks.com/	

LINE@ @cps.co.th

Computer Peripheral and Supplies Ltd.

244 Soi Pattanakarn 53, Pattanakarn, Suanluang, Bangkok 10250 Thailand
Tel : (66) 0-2322-9535, 0-2722-4040 Fax : (66) 0-2322-7990
www.cps.co.th • www.facebook.com/cps.co.th