

cnPilot™ E410 Indoor

802.11ac wave 2 dual band 2x2 indoor access point

Future proof your indoor deployments with the compact, low profile, 802.11ac Wave 2 Multi-user MIMO (MU-MIMO) beamforming, high-speed E410 Enterprise Access Point. The E410 is perfect for schools, malls, hotels, resorts, coffee shops, multi-dwelling units (MDUs), or any indoor environment that needs reliable, high performance access points.



CONTROLLER MANAGED + AUTONOMOUS

Managed by Cambium's cnMaestro™ cloud controller or On-premises controller, the cnPilot E410 management includes:

- Zero touch onboarding
- Inventory tracking & monitoring
- Mass configuration & upgrade
- Dashboard views with alarms
- Troubleshooting
- Hierarchical device organization

CONTROLLER-LESS ROAMING. POWERFUL SIMPLICITY

The E410 supports seamless roaming for up to 1,000 clients without needing a controller in the network. Hotspot portal hosting on the AP itself offers controller-less simplicity.

MONETIZE: VOUCHERS. SOCIAL LOGIN 18 17



Monetize your Wi-Fi service with cnMaestro's Guest Access capabilities that support splash page hosting, social login, temporary access vouchers, and payment gateway. These features - along with the ability to create time, rate and volume-limited traffic profiles - make the E410 ideal for hotels, coffee shops, campgrounds, and office guest Wi-Fi.

SERVICE AWARE WLANS FOR BETTER USER EXPERIENCE

Make sure that every connection to an access point is successful. When service to a critical resource such as an external Gateway or AAA is down, the E410 can turn off the impacted SSIDs, enabling client devices to redirect to a functional, neighboring access point.

INDOOR/OUTDOOR WI-FI MESH. FLEXIBILITY

Indoor meshing across multiple E410s, or Indoor/ Outdoor meshing across both the Indoor E410 and the Outdoor E500, offers convenient options to wirelessly expand WiFi coverage.

COVERAGE, CAPACITY. SPEED

The plenum-rated E410 packs a max transmit power of 25 dBm and is DFS certified to utilize additional reserved 5 GHz DFS channels - offering more flexibility than ever for both coverage and capacity. Throughput management via airtime fairness, increased performance by Automatic Channel Scanning (ACS), and higher client device speeds from band steering ensure your network can adapt to dynamic client behaviors.

HIGH DENSITY, HIGHLY AVAILABLE

A capacity of 256 concurrent client associations and 16 SSIDs, along with dual on-board Active/Standby memory banks, ensure the E410 combines high density with high availability.

LICENSE-FREE HIGH PERFORMANCE. ONE LOW PRICE.

The 802.11ac wave 2 E410 comes with a free controller and no AP management license fees. There are no hidden charges.

SPECIFICATIONS

Standards	IEEE 802.11a/b/g/n/ac Wave 2 Others: 802.11 h/d/r/u/w/	Ethernet Ports	One (1) x 1 Gigabit Ethernet (10/100/1000 Mbps)	
MIMO Streams	2x2 MIMO streams.	Frequency bands	2.4 GHz: 2400-2484 MHz	
Range	180 m (650 Ft)		5 GHz: 5150-5850 MHz with DFS band support	
Concurrent Clients	256	Power Supply	Standard 802.3af injector (supplied) or any PoE switch	
Max Data Rates	867 Mbps	Power Consumed	13W (max)	
SSID	16 SSIDs across 2 radios	Dimensions	170 x 170 x 41 mm (17 x 17 x 4.1 cm)	
Antenna gain	4.55 dBi (2.4 GHz)/4.25 dBi (5 GHz)	Weight	384grams (0.384kg)	
Multi-Hop Mesh	Yes. Supported on Indoor & Outdoor access points. Mesh auto-recovery supported	Temperature	0°C to +50°C	
		LED	Single LED window with tri color (Amber, Blue, Green) display	
Polarization	Dual-linear	Max TX Power	+25 dBm	
Antenna Coverage	Omni (360°)	Physical Lock	Kensington key hole	
WI-FI FEATURES	5			
Controller modes	 Autonomous Controller-less operations (E.g.: roaming) Cloud Managed On-premise virtualized controller 	ACS: Automatic Channel Selection	Yes. Set at start or run periodically	
Secure WLAN	WPA-TKIP, WPA2 AES, 802.1x	NAT	Yes	
Hotspot 2.0/Passpoint	802.11w (Protected Management Frames) Yes	DHCP Server	Yes	
Captive Portal/	cnMaestro Controller	Firewall	Yes. NAT logging	
Guest Access	Stand-alone AP based Redirection to external RADIUS Server Active Directory Integration	ACL, DNS-ACL	Yes. L2, L3 or DNS based access control	
Authentication	Secure Web page, RADIUS based 802.1x including EAP-SIM/AKA, EAP-PEAP, EAP-TTLS, and EAP-TLS MAC authentication (local database or External RADIUS server)	Band Steering Band Balancing	Yes	
		Airtime Fairness	Yes	
Accounting	Yes. Supports RADIUS based accounting to multiple AAAs	Tunneling	• L2TP • L2oGRE • PPPoE	
Scheduled SSID	Turn SSID ON/OFF on a daily/weekly/time of day basis	Tools	Packet capture IP connectivity Wi-Fi analyzer	
VLAN	Dynamic VLAN assignment from RADIUS server. VLAN per SSID per user, VLAN load balancing	Services	Syslog servers awareness feature reacts to the	
Data Limiting	Dynamic rate limiting of client traffic per SSID & per client			
Subscriber QoS	WMM		SNMP traps support health of an external Gateway DNS proxy or AAA and turns SSID ON/OI	
Client Isolation	Yes	APIs	Presence Locationing API	
Controller-Less Fast Roaming	Yes. 802.11r, Opportunistic Key Caching supports Enhanced roaming Disconnect for sticky clients	Certifications	FCC, ETSI, CE EN 60601-1-2 (Medical EMC) UL2043 Plenum rated	
Airtime Fairness	Yes			
Meshing	Multi-hop meshing supported (3)			
n MAESTRO WI -	FI CONTROLLER			
Cloud & On-Premises	Available in the Cloud or as a downloadable VMware® image (On-premises)	Key Stats Monitoring	7 day historic stats	
Common Manager	Manage both cnPilot and Cambium's ePMP and PMP 450 radios	Portal Hosting	Setup Hotspot portals segmented by SSIDs	
Troubleshooting	Single screen wireless view, showing Wireless backhaul, Access point & clients	Voucher	Time and Rate limited Guest access portals with Vouchers for 1,00 client devices	
Frictionless	Secure large scale bulk onboarding	Social Login	Facebook, Google	
On-Boarding	Zero touch bulk configuration and provisioning	Site Grouping	ing Group sets access points for convenient management	
Device Inventory	Inventory tracking and reporting	Client Insight	Shows client history with aggregate client manufacturer views	
Monitoring	Insightful status monitoring; rich visibility to device lifecycle Alarms and events management – Critical/Major/Minor Statistics graphs and table display Alarm traffic light display	Multiple Admins	Multiple admin provisioning per account	
		Software Upgrade	Ability to upgrade multiple WiFi devices at a time	

THE ADAPTIVE cnPILOT NETWORK

OVER-THE-AIR AP FEATURES USER TRAFFIC CONTROLLER: OPTIONS CLOUD OR AirTime fairness Multi-hop Mesh CONTROLLER **ON-PREMISES (NOC)** Local breakout (LBO) Client (Zap compatible) autoPilot controller cn**MAESTRO** perf testing External GW tunneling NOC: Setup controller Controller-less roaming to tunnel user traffic - L2TP, L2oGRE, PPoE Guest access limits autoRF dynamic VLAN pooling and per Monitor, configure, Client location API Tx power control upgrade all APs per AP VLAN per SSID tagging cnCheckin guest access User access: Data VLAN pooling Location APIs with limits **Outdoors: Power CPEs** SMS notifications from APs INTERNET **CLIENTS** cnPILOT APS

Ordering Information:	The cnPilot E410 Indoor 802.11ac WAVE 2 Access point. Available in models with and without PoE Injectors		
Regulatory Model Number (common to all SKUs):	cnPilot™ E410 Indoor		
Sales part #s (examples)	Description		
PL-E410P <us eu="" xx="">-A-<us eu="" rw=""></us></us>	E410 with PoE injector: PL-E410PUSA-US: FCC model, IC PL-E410PEU-EU: ETSI (EU) PL-E410PXXA-RW: ROW certified versions		
PL-E410X00A- <us eu="" rw=""></us>	E410 No PoE injector. FCC/ETSI (EU)/IC/ROW certified versions		
Other country-specific SKUs are also available. Please contact an authorized Cambium cnPilot distributor for more details, or see Cambium Partner portal for list of SKUs			
Discover more information on cnPilot at: http://community.cambiumnetworks.com/			