

cnPilot[™] e410, e600 Indoor Wi-Fi Access Points

802.11ac Wave 2 Indoor Wi-Fi Access Points

Designed to scale from small enterprises to K12 schools, the e410 and e600 feature an easy-to-install integrated bracket and is enterprise grade 802.11ac Wave 2. e410 and e600 share a common industrial design for repeatable and predictable installation in any enterprise or business. Both access points (AP) can be managed by cnMaestro cloud, on-premises cnMaestro, a private datacenter or as a standalone AP.

QUICK LOOK:

	e410	e600
802.11 a/b/g/n/ac Wave 2	\checkmark	\checkmark
5 GHz / 2.4 GHz streams	2x2 / 2x2	4x4 / 2x2
Gigabit Ethernet	1	2





CLOUD-MANAGED ACCESS

cnMaestro[™] provides end-to-end cloud Dashboard for Wi-Fi, Ethernet, and fixed wireless broadband:

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

cnMaestro Essential cloud management is included at no additional cost. No setup fee, no license, and no recurring cost.

CONTROLLER-LESS ROAMING, POWERFUL SIMPLICITY

cnPilot e410 and e600 include controller-less distributed intelligence for seamless roaming and enhanced roaming for up to 1,000 devices. cnMaestro management provides end-to-end visibility and zero-touch provisioning across thousands of sites.

MONETIZE: VOUCHERS. SOCIAL LOGIN

A hotspot portal can be designed in the cloud and distributed to each site's access point with a single touch. Wi-Fi hotspot capabilities support splash page hosting, social login, temporary access vouchers, and multiple credit card payment gateways. Control time, rate and data volume traffic profiles.

HIGH CAPACITY AND RELIABILITY

Airtime fairness, standardized beamsteering, and MU-MIMO increase network capacity while automatic RF management monitors performance and optimizes the network to avoid interference. Detailed network statistics, utilization graphs, and integrated troubleshooting ensure service is always on.



Access Point Specifications

Access Form Spec		
	e410	e600
US-FCC ISED Canada EU-ETSI ROW	Ch 1-11, 36-48, 149-157 Ch 1-11, 36-48, 149-157 Ch 1-13, 32-48, 159-165 Ch 1-13, 32-48, 159-165	Ch 1-11, 36-48, 149-157 Ch 1-11, 36-48, 149-157 Ch 1-13, 32-48, 159-165 Ch 1-13, 32-48, 159-165
Radios	1 x 5 GHz radio (802.11 a/n/ac Wave 2), 2x2 1 x 2.4 GHz (802.11 b/g/n), 2X2 SU-MIMO / MU-MIMO: 2 streams	1 x 5 GHz radio (802.11 a/n/ac Wave 2), 4x4 1 x 2.4 GHz (802.11 b/g/n), 2x2 SU-MIMO / MU-MIMO: 4 streams
Wi-Fi	802.11 a/b/g/n/ac	802.11 a/b/g/n/ac
SSID Security	WPA2 (802.11i), WPA2 Enterprise (802.1)	x/EAP), WPA PSK, Open
Max PHY Rate	2.4 GHz radio: 400 Mbps5 GHz radio: 867 Mbps	2.4 GHz radio: 400 Mbps5 GHz radio: 1700 Mbps
Ethernet	Three IEEE Gigabit Etherne	et auto sensing
Antenna	Internal omni-directional 2.4 GHz: 4 dBi 5 GHz: 4.29 dBi	Internal omni-directional 2.4 GHz: 4.5 dBi 5 GHz: 4.25 dBi
Max EIRP	2.4 GHz: 25 dBm 5 GHz: 25 dBm (EIRP limited by country regulations)	2.4 GHz: 27.5 dBm 5 GHz: 27.25 dBm (EIRP limited by country regulations)
WLAN	256 clients, 16 SSIDs WPA-TKIP, WPA2 AES, 802.1x, 802.11w PMF	512 clients, 32 SSIDs (16 per radio) WPA-TKIP, WPA2 AES, 802.1x, 802.11w PMF
Power	802.3af or 802.3at powered device Typical load: 9 W 2.1 mm 12 VDC barrel connector	802.3af or 802.3at powered device Typical load: 12 W, Max: 22 W 2.1 mm 12 VDC barrel connector
Mounting	Desktop, Wall mount, included T-bar mount 14 mm x 24 mm x 38 mm (0.55 in x 0.94 in x 1.5 in) Ceiling Tile mount included Kensington lock slot	Desktop, Wall mount, included T-bar mount 14 mm x 24 mm x 38 mm (0.55 in x 0.94 in x 1.5 in) Ceiling Tile mount included Kensington lock slot
Dimensions	170 mm x 170mm x 41 mm (6.69 in x 6.69 in x 1.61 in)	180 mm x 180 mm x 42mm (7.09 in x 7.09 in x 1.65 in)
Weight	384 g (0.85 lb)	400 g (0.88 lb)
LEDs	Single Tri-color LED (amber, blue, green)	Single Tri-color LED (amber, blue, green)
Ambient Operation Temperature	0°C to 50°C (32°F to 122°F)	0°C to 50°C (32°F to 122°F)
Storage Temperature	-40°C to 70°C (-40°C to 158°F)	-40°C to 70°C (-40°C to 158°F)
Humidity	95% RH non-condensing	95% RH non-condensing
Certifications	Wi-Fi Alliance 802.11 a/b/g/n/ac, Passpoint 2.0 FCC, ETSI, CE, EN 60601-1-2, IEC60950 UI2043	Wi-Fi Alliance 802.11 a/b/g/n/ac, Passpoint 2.0 FCC, ETSI, CE, EN 60601-1-2, IEC60950 UI2043



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Management

Adaptive cnPilot Network



Cambium cnMaestro uses a distributed intelligence architecture with a cloud-first cnMaestro management and edge-intelligent access points that self-optimize for the RF environment. cnMaestro and cnPilot access points provide automatic RF management and seamless roaming, with a cloud-first, multi-site management for up to 10,000 devices and hundreds of thousands of connected clients. cnMaestro delivers single pane-of-glass management for Cambium broadband fixed wireless, cnMatrix Ethernet switches, enterprise-grade Wi-Fi access points and service provider residential routers.

Interfaces	HTTP / HTTPS web interface, SSL, Telnet SNMP V1, V2, V3 Syslog, SNMP traps, NTP	Captive Portal	Hosted on cnMaestro Controller On-AP hosted guest portal Redirect to HTTP/RADIUS external portal/ authentication Active Directory integration, Google, Facebook, Office 365 integration
Deployment	cnMaestro Cloud, cnMaestro on-premises, Standalone AP		
Services	Monetized, cloud-managed guest portal with design tools		Data rate, time duration, data throughput limit Server DNS logging
APIs	RESTful management and statistics API Presence location API Splunk WebSecket integration WebSecket	Hotspot 2.0 Accounting	Hotspot 2.0/Passpoint 2.0 RADIUS accounting, load balancing AAA servers,
	Splunk WebSocket integration, WebSocket DNS, NAT, TCP connection log		Dynamic Authorization COA, DM
		Service Availabilty	Critical network resource monitor with automatic shutdown maintains device connectivity

WLAN And 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, v3 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	Band Steer Load Balance	Yes
QoS	802.11e/WMM QoS. DSCP/ToS mapping	Tunnel	L2TP, L2oGRE, PPPoE
VLAN	802.11Q, max 4096	Network	Out-of-band RF spectrum analysis, radio
Fast Roaming	802.11r, OKC, Enhanced roaming	and RF	self test network assurance, RF monitor with
Mesh	Multi-hop (3), either band	Management Tools	chn/noise/interference, wired and wireless remote packet capture, auto logging, ZapD
Channel Selection	Auto RF: manual or automatic	performance tool,	performance tool, rogue AP detection, ultralow power mode,
Auto TX Power	Auto RF: automatically adjust max transmit power		honeypot control

Standards	
Wi-Fi	VHT MCS rates, 256-QAM, HT20/40/80 MHz
Protocols	Transmit beamsteering, Airtime Fairness, Packet Aggregation (AMSDU, AMPDU) RIFS, STBC, LDPC
	MIMO Power Save, MRC

Antenna Patterns - e410





Antenna Patterns - e600







e410



e600

e410 Ordering In	formation
PL-e410X00A-US	cnPilot e410 Indoor (FCC) 802.11ac Wave 2, 2x2, AP
PL-e410X00A-EU	cnPilot e410 Indoor (EU) 802.11ac Wave 2, 2x2, AP
PL-e410X00A-RW	cnPilot e410 Indoor (ROW) 802.11ac Wave 2, 2x2, AP
PL-e410PUSA-US	cnPilot e410 Indoor (FCC, US cord) 802.11ac Wave 2, 2x2, AP with PoE Injector
PL-e410PEUA-EU	cnPilot e410 Indoor (EU, EU cord) 802.11ac Wave 2, 2x2, AP with PoE Injector
PL-e410PXXA-RW	cnPilot e410 Indoor (ROW, No cord) 802.11ac Wave 2, 2x2, AP with PoE Injector
PL-e410PEUA-RW	cnPilot e410 Indoor (ROW with EU cord) 802.11ac Wave 2, 2x2, AP with PoE Injector
PL-e410PUKA-EU	cnPilot e410 (EU with UK country cord) 802.11ac Wave 2, 2x2, AP with PoE Injector
PL-e410PUKA-RW	cnPilot e410 (ROW with UK country cord) 802.11ac Wave 2, 2x2, AP with PoE Injector
PL-e410PUSA-RW	cnPilot e410 (ROW with US country cord) 802.11ac Wave 2, 2x2, AP with PoE Injector
PL-e410PINA-RW	cnPilot e410 (ROW with India country cord) 802.11ac Wave 2, 2x2, AP with PoE Injector
PL-e410PCNA-RW	cnPilot e410 (ROW with China country cord) 802.11ac Wave 2, 2x2, AP with PoE Injector
PL-e410PANA-RW	cnPilot e410 (ROW with AUS/NZ cord) 802.11ac Wave 2, 2x2, with PoE Injector
PL-e410PBRA-RW	cnPilot e410 (ROW with Brazil cord) 802.11ac Wave 2, 2x2, with PoE Injector
PL-e410PARA-RW	cnPilot e410 (ROW with Argentina cord) Wave 2, 2x2, 802.11ac with PoE Injector
N00000L034A	Power supply, 30 W, 56 V, RJ45 – Gbps support. C5 AC port. AC line cord sold separately

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

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e600 Ordering Ir	nformation
PL-e600X00A-US	cnPilot e600 Indoor (FCC) 802.11ac Wave 2, 4x4, AP
PL-e600X00A-EU	cnPilot e600 Indoor (EU) 802.11ac Wave 2, 4x4, AP
PL-e600X00A-RW	cnPilot e600 Indoor (ROW) 802.11ac Wave 2, 4x4, AP
PL-e600PUSA-US	cnPilot e600 Indoor (FCC, US cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
PL-e600PEUA-EU	cnPilot e600 Indoor (EU, EU cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
PL-e600PXXA-RW	cnPilot e600 Indoor (ROW, No cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
PL-e600PEUA-RW	cnPilot e600 Indoor (ROW with EU cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
PL-e600PUKA-EU	cnPilot e600 (EU with UK country cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
PL-e600PUKA-RW	cnPilot e600 (ROW with UK country cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
PL-e600PUSA-RW	cnPilot e600 (ROW with US country cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
PL-e600PINA-RW	cnPilot e600 (ROW with India country cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
PL-e600PCNA-RW	cnPilot e600 (ROW with China country cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
PL-e600PANA-RW	cnPilot e600 (ROW with AUS/NZ cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
PL-e600PBRA-RW	cnPilot e600 (ROW with Brazil cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
PL-e600PARA-RW	cnPilot e600 (ROW with Argentina cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
N000000L034A	Power supply, 30 W, 56 W, RJ45 – Gbps support. C5 AC port. AC line cord sold separately

ABOUT CAMBIUM NETWORKS

Cambium Networks empowers millions of people with wireless connectivity worldwide. Its wireless portfolio is used by commercial and government network operators as well as broadband service providers to connect people, places and things. With a single network architecture spanning fixed wireless and Wi-Fi, Cambium Networks enables operators to achieve maximum performance with minimal spectrum. End-to-end cloud management transforms networks into dynamic environments that evolve to meet changing needs with minimal physical human intervention. Cambium Networks empowers a growing ecosystem of partners who design and deliver gigabit wireless solutions that just work.

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06222020