



cnPilot™ Indoor E400

Affordable Enterprise grade High density 802.11ac Indoor access points for Schools, Indoor public spaces, Malls, Hotels and Resorts (Hospitality), Coffee shops, Multi-dwelling units (MDUs) or just about any place indoor that needs reliable high performance Wi-Fi



CONTROLLER MANAGED + AUTONOMOUS

Managed by Cambium's cnMaestro™ cloud controller or On-premises controller, the cnPilot E400 management includes:

- Zero touch onboarding • Inventory tracking • Monitoring
- Mass Configuration • Dashboard views with Alarms • Mass upgrade • Troubleshooting • Hierarchical device organization

CONTROLLER-LESS ROAMING. POWERFUL SIMPLICITY

The E400 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

Monetize your Wi-Fi service: The controller driven Guest access feature supports splash page hosting with support for social login providing valuable demographic insight. These features along with the ability to create time and rate limited vouchers for temporary guest access makes the E400 ideal for Hotels, Coffee shops, Campgrounds, and Office guest Wi-Fi.

SERVICE SMART WLANS. BETTER USER EXPERIENCE

Nothing is more frustrating than connecting to an Access point, but not getting to the Internet! When connection to external Gateways or AAAs are down, the E400 can turn off the impacted SSIDs enabling client devices to select a different working neighboring Access point.

INDOOR/OUTDOOR WI-FI MESH. FLEXIBILITY

Indoor meshing across multiple E400s or Indoor/Outdoor meshing across the Indoor E400 and the Outdoor E500 offers a convenient way to easily expand Wi-Fi coverage without wires.

COVERAGE, CAPACITY. SPEED

The plenum rated E400, packs a max transmit power of 25 dB, and is DFS certified to make use of additional reserved 5GHz 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 the dynamics of ever changing client behaviors.

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 E400 combines high density with high availability.

LICENSE FREE HIGH PERFORMANCE. ONE LOW PRICE.

All cnPilot E-series APs come with a free controller, and no AP management license fees. No hidden charges. Affordable.

SPECIFICATIONS

TECHNICAL SPECIFICATIONS

Type	Dual band 2.4 GHz & 5 GHz 802.11ac Indoor APs
Stream	2x2 MIMO
Range	180 m (650 Ft)
Concurrent Clients	256
Max Data Rates	+1.167 Gpbs
SSID	16 SSIDs across 2 radios
Antenna Gain	Integrated Omni 5 dBi Gain
Multi-Hop Mesh	Yes. Supported on Indoor & Outdoor access points. Mesh auto-recovery supported
Polarization	Dual Polarized
Antenna Coverage	Omni (360°)

Ethernet Ports	One (1) x 1 Gigabit Ethernet (10/100/1000 Mbps)
Physical Lock	Kensington key hole
Power Supply	Standard 802.3af injector (supplied) or any PoE switch
Power Consumed	13W (max)
Dimensions (CM)	18 cm x 18 cm x 3 cm
Weight	350g
Temperature	0°C to +50°C
Certification	FCC, CE
Max TX Power	25 dBm

WIFI FEATURES

Controller Mode	Autonomous Controller-less cnMaestro Cloud Managed cnMaestro On-premise
Secure WLAN	WPA-TKIP, WPA2 AES, 802.1x 802.11w (Protected Management Frames),
Hotspot 2.0/Passpoint	Yes
Captive Portal	cnMaestro Controller Stand-alone AP based 3rd party hotspot redirection DNS logging
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)
Accounting	Yes. Supports RADIUS based accounting to multiple AAAs
Scheduled SSID	Turn SSID ON/OFF on a daily/weekly/time of day basis
Guest Access	Yes. Includes Active Directory support
VLAN	Dynamic VLAN assignment from RADIUS server. VLAN per SSID per user
Data Limiting	Dynamic rate limiting of client traffic per SSID
Subscriber QoS	WMM
Client Isolation	Yes
Controller-Less Fast Roaming	Yes. 802.11r, Opportunistic Key Caching supports Enhanced roaming
Airtime Fairness	Yes

ACS: Automatic Channel Selection	Yes. Set at start or run periodically	
NAT	Yes	
DHCP Server	Yes	
Firewall	Yes	
ACL, DNS-ACL	Yes. L2, L3 or DNS based access control	
Band Steering Band Balancing	Yes	
Tunneling	L2TP L2oGRE PPPoE	cnPilot's Gateway service awareness feature reacts to the health of an external Gateway or AAA
Tools	Packet capture Wireless Sniffer IP connectivity Tec support Wi-Fi analyzer	
Services	NTP server configuration Syslog servers SNMP traps support DNS proxy	
APIs	Presence Locationing API	
Certifications	FCC, ETSI, CE EN 60601-1-2 (Medical EMC) UL2043 Plenum rated	

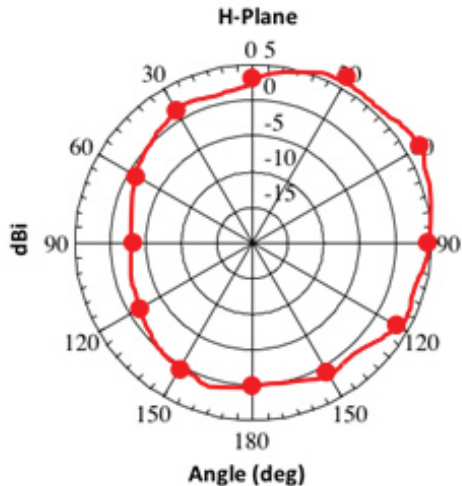
cnMAESTRO WI-FI CONTROLLER

Cloud & On-Premises	Available in the Cloud or as a downloadable VMware® image (On-premises)
Common Manager	Manage both cnPilot and Cambium's ePMP and PMP 450 radios
Troubleshooting	Single screen wireless view, showing Wireless backhaul, Access point & clients
Frictionless On-Boarding	Secure large scale bulk onboarding Zero touch bulk configuration and provisioning
Device Inventory	Inventory tracking and reporting
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

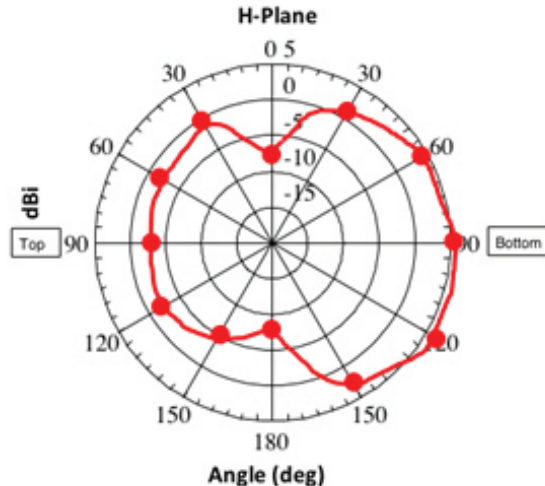
Key Stats Monitoring	7 day historic stats
Portal Hosting	Setup Hotspot portals segmented by SSIDs
Voucher	Time and Rate limited Guest access portals with Vouchers for 1,000 client devices
Social Login	Facebook, Google
Site Grouping	Group sets access points for convenient management
Client Insight	Shows client history with aggregate client manufacturer views
Multiple Admins	Multiple admin provisioning per account
Software Upgrade	Ability to upgrade multiple WiFi devices at a time

2D GAIN PATTERNS

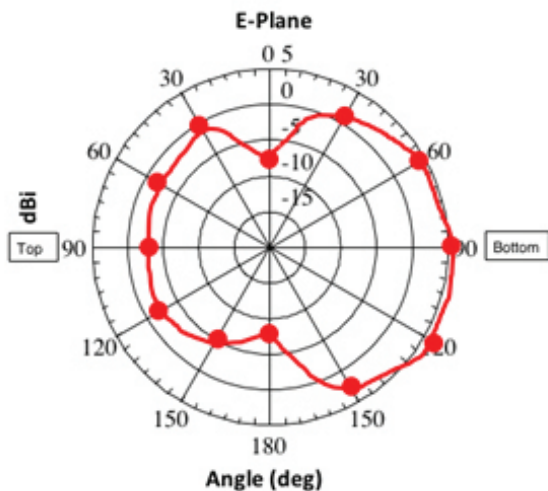
2.4 GHz Azimuth (Horizontal) Gain Pattern



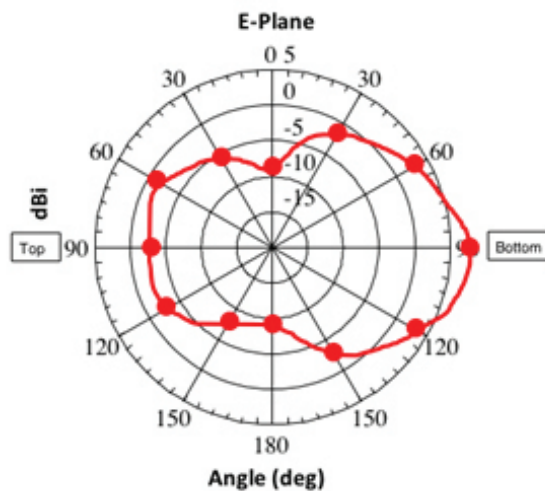
2.4 GHz Elevation (Vertical) Gain pattern



5 GHz Azimuth (Horizontal) Gain Pattern



5 GHz Elevation (Vertical) Gain pattern



cnPILOT E400 INDOOR - ORDERING INFORMATION

The cnPilot E400 Indoor 802.11ac Access Point. Available with and without PoE Injectors

Sales part #	Description
C000100W40<1/2/3>A	E400 with PoE injector. FCC/ETSI (EU)/IC/ROW certified versions
PL-E400INTA-<US/EU/ROW>	E400 No PoE injector. FCC/ETSI (EU)/IC/ROW certified versions

Other country specific SKUs are also available Please contact any Cambium authorized distributor for more details

Discover more information on cnPilot at: <http://community.cambiumnetworks.com/>