

# cnPilot Indoor e400

Gigabit Wi-Fi: 802.11ac dual band 2x2  
Indoor access point



Affordable Enterprise grade High density capable 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 AWARE WLANS. BETTER USER EXPERIENCE

Nothing is more frustrating than connecting to an access point, but not getting to the Internet! When connection to a critical resource such as an external Gateway or AAA is 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

Standards h/d/r/u/w/e Wi-Fi	IEEE 802.11a/b/g/n/ac. Others: 802.11 alliance certified	Ethernet Ports	One (1) x 1 Gigabit Ethernet (10/100/1000 Mbps)
Antenna	2x2 MIMO streams.	Frequency bands	2.4 GHz: 2400-2484 MHz 5 GHz: 5150-5850 MHz with DFS band support
Range	180 m (650 Ft)	Power Supply	Standard 802.3af injector (supplied) or any PoE
Concurrent Clients	256	switch Power Consumed	13W (max)
Max Data Rates	+1.167 Gbps	Dimensions	18 cm x 18 cm x 3 cm
SSID	16 SSIDs across 2 radios	Weight	350g
Antenna gain	4.55 dBi (2.4 GHz)/4.25 dBi (5 GHz)	Temperature	0°C to +50°C
Multi-Hop Mesh points.	Yes. Supported on Indoor & Outdoor access points. Mesh auto-recovery supported	LED	Bi-color LEDs. Two windows showing Controller adoption and AP status
Polarization	5 GHz dual Polarized	Max TX Power	+25 dBm
antenna Antenna Coverage	Omni (360°)	Physical Lock	Kensington key hole

### WI-FI FEATURES

Controller modes	<ul style="list-style-type: none"> <li>Autonomous Controller-less operations (E.g.: roaming)</li> <li>Cloud Managed</li> <li>On-premise virtualized controller</li> </ul>	Meshing	Multi-hop meshing supported (3)
Secure WLAN	WPA-TKIP, WPA2 AES, 802.1x 802.11w (Protected Management	ACS: Automatic Channel Selection	Yes. Set at start or run periodically
Frames) Hotspot 2.0/Passpoint	Yes	NAT	Yes
Captive Portal	<ul style="list-style-type: none"> <li>cnMaestro Controller</li> <li>Stand-alone AP based</li> <li>Redirection to external RADIUS</li> <li>Server DNS logging</li> </ul>	DHCP Server	Yes
Authentication EAP-SIM/	Secure Web page, RADIUS based 802.1x including AKA, EAP-PEAP, EAP-TTLS, and EAP-TLS	Firewall	Yes
	MAC authentication (local database or External	ACL, DNS-ACL	Yes. L2, L3 or DNS based access control
RADIUS server) Accounting	Yes. Supports RADIUS based accounting to multiple AAAs Scheduled SSIDTurn SSID ON/OFF on a daily/weekly/time of day basis	Band Steering Band Balancing	Yes
Guest Access	Yes. With Active Directory Integration	Tunneling	• L2TP • L2oGRE • PPPoE
VLAN server.	Dynamic VLAN assignment from RADIUS VLAN per SSID per user	Tools	<ul style="list-style-type: none"> <li>Packet capture</li> <li>IP connectivity</li> <li>Wi-Fi analyzer</li> <li>Wireless Sniffer</li> <li>Tech support (logs)</li> </ul>
Data Limiting	Dynamic rate limiting of client traffic	Services	NTP server config Syslog servers SNMP traps support DNS proxy cnPilot's critical resource service awareness feature reacts to the health of an external Gateway or AAA and turns SSID ON/OFF
per SSID Subscriber QoS	WMM, 802.11e	APIs API	Presence Locationing
Client Isolation	Yes	Certifications	FCC, ETSI, CE EN 60601-1-2 (Medical EMC) UL2043 Plenum rated
Controller-Less Fast Roaming	Yes. 802.11r, Opportunistic Key Caching supports Enhanced roaming Disconnect for sticky clients		
Airtime Fairness	Yes		

### cnMAESTRO WI-FI CONTROLLER

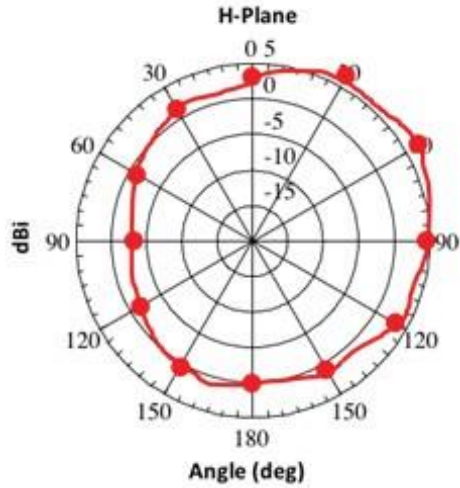
Cloud & On-Premises VMware® image	Available in the Cloud or as a downloadable (On- premises)	radios	
Common Manager PMP 450	Manage both cnPilot and Cambium's ePMP and	Troubleshooting	Single screen wireless view, showing Wireless backhaul,

Key Stats Monitoring	7 day historic stats
Portal Hosting	Setup Hotspot portals segmented by SSIDs Access point & clients
Frictionless On-Boarding	Secure large scale bulk onboarding Zero touch bulk configuration and provisioning
Device Inventory	Inventory tracking and reporting
Monitoring lifecycle	Insightful status monitoring; rich visibility to device Alarms and events management – Critical/Major/Minor Statistics graphs and table display Alarm traffic light display

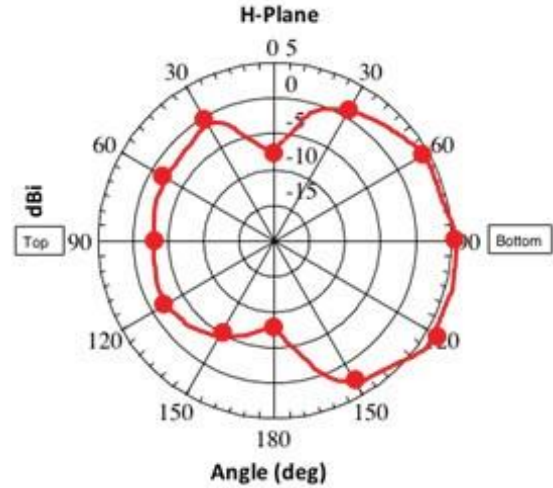
Voucher	Time and Rate limited Guest access portals with Vouchers for 1,000 client devices
Social Login	Facebook, Google
Site Grouping	Group sets access points for convenient management
Client Insight views	Shows client history with aggregate client manufacturer views
Multiple Admins	Multiple admin provisioning per account
Software Upgrade	Ability to upgrade multiple Wi-Fi devices at a time

## 2D GAIN PATTERNS

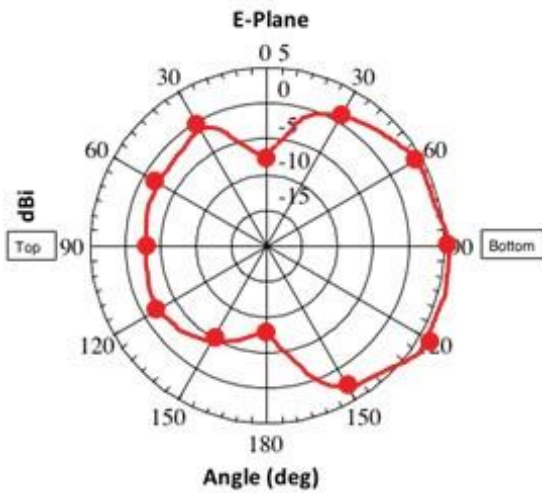
2.4 GHz Azimuth (Horizontal) Gain Pattern



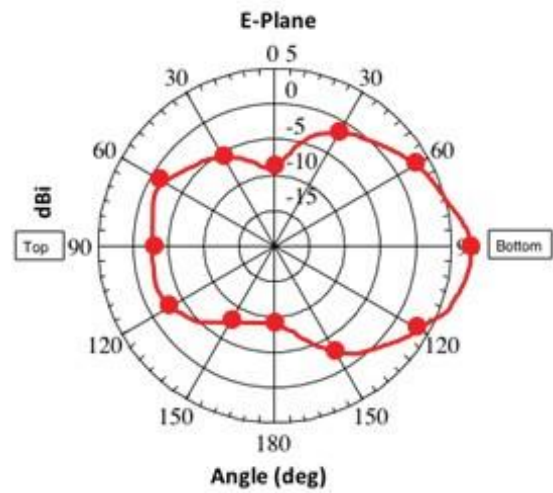
2.4 GHz Elevation (Vertical) Gain pattern



5 GHz Azimuth (Horizontal) Gain Pattern



5 GHz Elevation (Vertical) Gain pattern



Ordering Information:	The cnPilot E400 Indoor 802.11ac Access point. Available in models with and without PoE Injectors
Regulatory Model Number (common to all SKUs):	C000100P400A
Sales part #	Description
C000100W40<1/2/3/4>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 an authorized Cambium cnPilot distributor for more details	

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

