



## 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 organisation

#### 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.

#### MONETISE: VOUCHERS. SOCIAL LOGIN

Monetise 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.

#### 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.

## PRODUCT DATASHEET cnPilot Indoor E400



#### 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 neighbouring Access point.

#### 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 behaviours.

#### 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

### ACCESS POINT

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

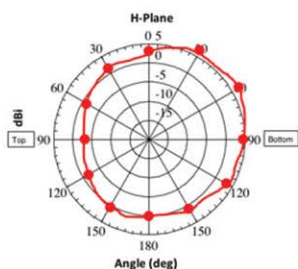
### WIFI FEATURES

- Controller modes : Autonomous Controller-less operations (E.g.: roaming), Cloud Managed, On-premise virtualised controller
- Secure WLA : WPA-TKIP, WPA2 AES, 802.1x  
802.11w (Protected Management Frames)
- Hotspot 2.0/Passpoint: Yes
- Captive Portal : cnMaestro Controller, Stand-alone AP based, Redirection to external RADIUS, Server 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. With Active Directory Integration
- 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, Disconnect for sticky clients
- Airtime Fairness : Yes

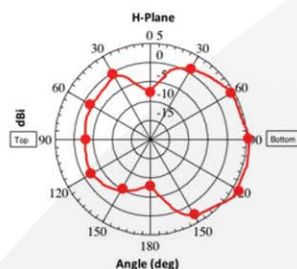
- Meshing : Multi-hop meshing supported (3)
- ACS: Automatic Channel Selection : Yes. Set at start or run periodically
- NAT : Yes
- DHCP Server : Yes
- Firewall : Yes. NAT logging
- ACL, DNS-ACL : Yes. L2, L3 or DNS based access control
- Band Steering : Yes
- Band Balancing : Yes
- Airtime Fairness : Yes
- Tunneling : L2TP, L2oGRE, PPPoE
- Tools : Packet capture, IP connectivity, Wi-Fi analyser, Wireless Sniffer, Tech support (logs)
- 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
- APIs : Presence Locating API
- Certifications : FCC, ETSI, CE  
EN 60601-2 (Medical EMC)  
UL2043 Plenum rated

### cnMAESTRO WIFI CONTROLLER

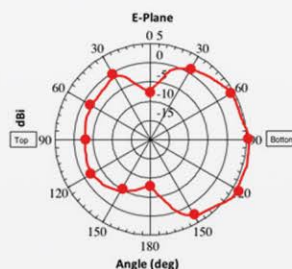
- Cloud & On-Premises : Available in the Cloud or as a downloadable VMware® image (On-premises)
- Common Manager : Manage both cnPilot and Cambium's ePMP and PMP 450 radios
- Troubleshooting : Single screen wireless view, showing Wireless backhaul, Access point & clients
- Frictionless On-Boarding : Secure large scale bulk onboarding
- Device Inventory : Zero touch bulk configuration and provisioning
- Monitoring : Inventory tracking and reporting
- Key Stats Monitoring : Insightful status monitoring; rich visibility to device lifecycle, Alarms and events management - Critical/Major/Minor, Statistics graphs and table display
- Portal Hosting : 7 day historic stats
- Voucher : 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



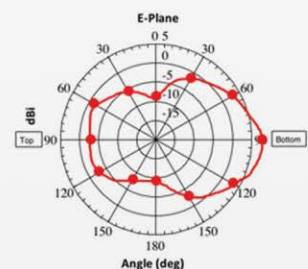
2.4 GHz Azimuth (Horizontal) Gain Pattern



2.4 GHz Elevation (Vertical) Gain pattern



5 GHz Azimuth (Horizontal) Gain Pattern



5 GHz Elevation (Vertical) Gain pattern

### Why Rising Connection is using equipment designed and built by Cambium Networks?

- High quality and worldwide longevity track record of installations across a diverse application base
- Using establish world best practices in design and materials with full support of both Australian and International Standards
- Constant evolution of hardware and improvements in firmware for the benefit of the customer
- Established interoperability with various equipment and propriety security systems
- Full portfolio of solution development services and cloud management

This demonstrates to Rising Connection that you will have the Quality, Reliability and Product Support.