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.
## TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Standards</th>
<th>IEEE 802.11a/b/g/n/ac. Others: 802.11h/d/r/u/w/e Wi-Fi alliance certified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antenna</td>
<td>2x2 MIMO streams.</td>
</tr>
<tr>
<td>Range</td>
<td>180 m (650 Ft)</td>
</tr>
<tr>
<td>Concurrent Clients</td>
<td>256</td>
</tr>
<tr>
<td>Max Data Rates</td>
<td>+1.167 Gbps</td>
</tr>
<tr>
<td>SSID</td>
<td>16 SSIDs across 2 radios</td>
</tr>
<tr>
<td>Antenna gain</td>
<td>4.55 dBi (2.4 GHz)/4.25 dBi (5 GHz)</td>
</tr>
<tr>
<td>Multi-Hop Mesh points</td>
<td>Yes. Supported on Indoor &amp; Outdoor access</td>
</tr>
<tr>
<td>Polarization</td>
<td>5 GHz dual Polarized</td>
</tr>
<tr>
<td>antenna Antenna Coverage</td>
<td>Omni (360°)</td>
</tr>
</tbody>
</table>

### 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
- 18 cm x 18 cm x 3 cm

### Weight
- 350g

### 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

### Controller modes
- • Autonomous Controller-less operations (E.g.: roaming)
- • Cloud Managed
- • On-premise virtualized controller

### 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
- • Direction to external RADIUS
- • Server DNS logging

### Authentication
- Secure Web page, RADIUS based 802.1x including
- AKA, EAP-PEAP, EAP-TTLS, and EAP-TLS
- MAC authentication (local database or External RADIUS server)

### RADIUS server Accounting
- Yes. Supports RADIUS based accounting to multiple AAAs
- Scheduled SSID ON/OFF on a daily/weekly/time of day basis

### Guest Access
- Yes. With Active Directory Integration

### VLAN server
- Dynamic VLAN assignment from RADIUS
- VLAN per SSID per user

### Data Limiting
- Dynamic rate limiting of client traffic
- per SSID Subscriber QoS
- WMM, 802.11e

### 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

### ACL, DNS-ACL
- Yes. L2, L3 or DNS based access control

### Tunneling
- • L2TP • L2oGRE • PPPoE

### Tools
- • Packet capture • IP connectivity • Wi-Fi analyzer
- • 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 Locationing

### Certifications
- FCC, ETSI, CE
- EN 60601-1-2 (Medical EMC)
- UL2043 Plenum rated

### Airtime Fairness
- Yes

### Troubleshooting
- Single screen wireless view, showing Wireless backhaul,
<table>
<thead>
<tr>
<th>Key Stats Monitoring</th>
<th>7 day historic stats</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portal Hosting</td>
<td>Setup Hotspot portals segmented by SSIDs Access point &amp; clients</td>
</tr>
<tr>
<td>Frictionless On-Boarding</td>
<td>Secure large scale bulk onboarding Zero touch bulk configuration and provisioning</td>
</tr>
<tr>
<td>Device Inventory</td>
<td>Inventory tracking and reporting</td>
</tr>
<tr>
<td>Monitoring lifecycle</td>
<td>Insightful status monitoring; rich visibility to device lifecycle Alarms and events management – Critical/Major/Minor Statistics graphs and table display Alarm traffic light display</td>
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<table>
<thead>
<tr>
<th>Voucher</th>
<th>Time and Rate limited Guest access portals with Vouchers for 1,000 client devices</th>
</tr>
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<tbody>
<tr>
<td>Social Login</td>
<td>Facebook, Google</td>
</tr>
<tr>
<td>Site Grouping</td>
<td>Group sets access points for convenient management</td>
</tr>
<tr>
<td>Client Insight views</td>
<td>Shows client history with aggregate client manufacturer views</td>
</tr>
<tr>
<td>Multiple Admins</td>
<td>Multiple admin provisioning per account</td>
</tr>
<tr>
<td>Software Upgrade</td>
<td>Ability to upgrade multiple Wi-Fi devices at a time</td>
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</table>
2D GAIN PATTERNS

2.4 GHz Azimuth (Horizontal) Gain Pattern

![2.4 GHz Azimuth Gain Pattern](image1)

2.4 GHz Elevation (Vertical) Gain Pattern

![2.4 GHz Elevation Gain Pattern](image2)

5 GHz Azimuth (Horizontal) Gain Pattern

![5 GHz Azimuth Gain Pattern](image3)

5 GHz Elevation (Vertical) Gain Pattern

![5 GHz Elevation Gain Pattern](image4)

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/