



# cnPilot™ E600 Indoor

## Gigabit 802.11ac wave 2 dual band 4x4 Indoor access point

Stay on top of the latest standards with the high-powered, Gigabit speed, beamforming, Multi-user MIMO (MU-MIMO) 802.11ac wave 2 E600 access point with a 4x4 antenna array. From the classroom to the mall, cnPilot™ E600 Indoor is perfect for applications that demand high capacity, range, and/or support high user density.



### CONTROLLER MANAGED + AUTONOMOUS

Managed by Cambium's cnMaestro™ cloud controller or On-premises controller, the cnPilot E600 management includes:

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

### CONTROLLER-LESS ROAMING. POWERFUL SIMPLICITY

The E600 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 with cnMaestro's Guest Access capabilities that support splash page hosting, social login, temporary access vouchers, and payment gateway. These features – along with the ability to create time, rate and volume-limited traffic profiles – make the E600 ideal for hotels, coffee shops, campgrounds, and office guest Wi-Fi.

### SERVICE AWARE WLANS. BETTER USER EXPERIENCE

Make sure that every connection to an access point is successful. When service to a critical resource such as an external Gateway or AAA is down, the E600 can turn off the impacted SSIDs, enabling client devices to redirect to a functional, neighboring access point.

### INDOOR/OUTDOOR WI-FI MESH. FLEXIBILITY

Indoor meshing across multiple E600s, or Indoor/Outdoor meshing across both the Indoor E600 and the Outdoor E500, offers convenient options to wirelessly expand Wi-Fi coverage.

### COVERAGE, CAPACITY. SPEED

The plenum-rated E600, packs a max transmit power of 28 dB, and is DFS certified to make use of additional reserved 5 GHz 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 dynamic client behaviors.

### HIGH DENSITY, HIGHLY AVAILABLE

A capacity of 256 concurrent client associations and 16 SSIDs, along with dual on-board Active/Standby memory banks, ensure the E600 combines high density with high availability.

### LICENSE-FREE HIGH PERFORMANCE. ONE LOW PRICE.

Including a free controller and requiring no AP management license fees, the 802.11ac wave 2 E600 is one of the most competitively priced 4x4 access points.

# SPECIFICATIONS

## ACCESS POINT SPECIFICATIONS

Standards	IEEE 802.11a/b/g/n/ac Wave 2   Other standards: 802.11 h/d/r/u/w/
MIMO Streams	2x2 (2.4 GHz) , 4x4 (5 GHz) MIMO streams.
Range	250 m (800 Ft)
Concurrent Clients	512
Max Data Rates	1.3 Gbps (1300 Mbps)
SSID	32 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
Polarization	Dual-linear
Antenna Coverage	Omni (360°)
USB	Yes
Bluetooth radio	Yes. BLE

## 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>
Secure WLAN	WPA-TKIP, WPA2 AES, 802.1x 802.11w (Protected Management Frames)
Hotspot 2.0/Passpoint	Yes
Captive Portal/ Guest Access	<ul style="list-style-type: none"> <li>• cnMaestro Controller</li> <li>• Stand-alone AP based</li> <li>• Redirection to external RADIUS Server</li> <li>• Active Directory Integration</li> </ul>
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
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

## 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

Ethernet Ports	Two (2) x 1 Gigabit Ethernet (10/100/1000 Mbps)
12 V DC Input	Yes
Frequency bands	2.4 GHz: 2400-2484 MHz 5 GHz: 5150-5850 MHz with DFS band support
Power Supply (Multiple choices)	Standard 802.3at injector (supplied), 802.3at PSE, 802.3af PSE (limited performance), 12V dc adapter (accessory or PoE switch)
Power Consumed	22 W (max)
Dimensions	180x180x42mm (or 18x18x4.2cm)
Weight	400 g
Temperature	0°C to +50°C
LED	Single LED window with tri color (Amber, Blue, Green) display
Max TX Power	22 dBm
Physical Lock	Kensington key hole

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 Band Balancing	Yes
Airtime Fairness	Yes
Tunneling	<ul style="list-style-type: none"> <li>• L2TP</li> <li>• L2oGRE</li> <li>• PPPoE</li> </ul>
Tools	<ul style="list-style-type: none"> <li>• Packet capture</li> <li>• Wireless Sniffer</li> <li>• IP connectivity</li> <li>• Tech support (logs)</li> <li>• Wi-Fi analyzer</li> </ul>
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 API
Certifications	FCC, ETSI, CE EN 60601-1-2 (Medical EMC) UL2043 Plenum rated

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
Managed Services	Managed Service Provider (MSP) for managed Enterprise networks

## THE ADAPTIVE cnPILOT NETWORK

### OVER-THE-AIR

AirTime fairness  
 Client (Zap compatible) perf testing  
 Guest access limits  
 Client location API per AP  
 VLAN pooling  
 Outdoors: Power CPEs from APs

### AP FEATURES

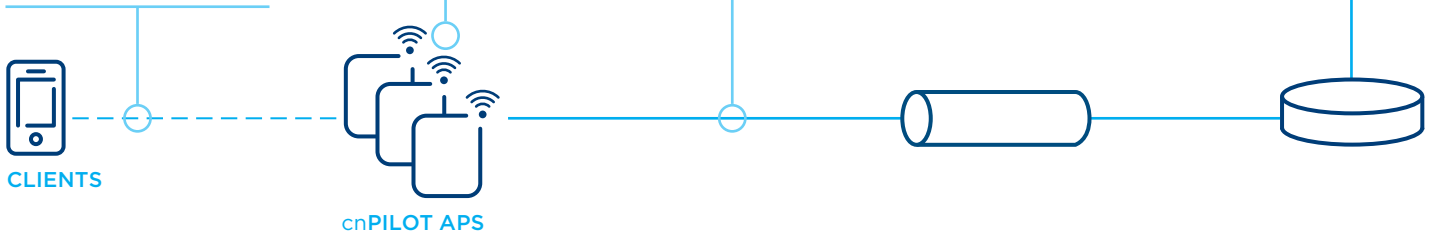
Multi-hop Mesh  
*autoPilot* controller  
 Controller-less roaming  
 autoRF dynamic Tx power control  
 cnCheckin guest access  
 Location APIs

### USER TRAFFIC OPTIONS

Local breakout (LBO)  
 External GW tunneling - L2TP, L2oGRE, PPOE  
 VLAN pooling and per VLAN per SSID tagging

### CONTROLLER: CLOUD OR ON-PREMISES (NOC)

NOC: Setup controller to tunnel user traffic  
 Monitor, configure, upgrade all APs  
 User access: Data with limits  
 SMS notifications



Ordering Information:	The cnPilot E600 Indoor 802.11ac WAVE 2 Access point. Available in models with and without PoE Injectors
Regulatory Model Number (common to all SKUs):	cnPilot™ E600 Indoor
Sales part #s (examples)	Description
PL-E600P<US/EU/XX>A-US/EU/RW	E600 with PoE injector. PL-E600PUSA-US: FCC model. PL-E600PEU-EU: ETSI (EU), PL-E600PXXA-RW: ROW. IC certified as well.
PL-E600X00A-<US/EU/ROW>	E600 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, or see Cambium Partner portal for list of SKUs.	
Discover more information on cnPilot at: <a href="http://community.cambiumnetworks.com/">http://community.cambiumnetworks.com/</a>	