

# cnPilot e600 Indoor

Gigabit 802.11ac Wave 2 Dual Band 4x4 Indoor  
Wi-Fi 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 and configuration
- 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 2,048 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 Education Campus, hotels, high density locations, coffee shops, campgrounds, and office guest Wi-Fi.

## SERVICE AWARE WLANS FOR 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 with any other Cambium Indoor/Outdoor Enterprise AP, offers a convenient option to wirelessly expand Wi-Fi coverage anywhere.

## 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 5GHz DFS channels – offering more flexibility than ever for both coverage and capacity. Throughput management via Airtime fairness, increased performance by AutoRF, and higher client device speeds from band steering ensure your network can adapt to dynamic client behaviors.

## HIGH DENSITY, HIGHLY AVAILABLE

A capacity of 512 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.

## WARRANTY

Limited Lifetime warranty

## SPECIFICATIONS

## Access Point Specifications

<b>Standards</b>	IEEE 802.11a/b/g/n/ac Wave2 IEEE 802.11d/e/h/i/k/r/u/v/w Modulation: BPSK, QPSK, CCK, 16/64/256-QAM Radio modes : DSSS, OFDM	<b>Frequency Bands</b>	2.400 to 2.2484 GHz <i>(Country-specific limits apply, some bands require DFS)</i> 5.150 to 5.250 GHz 5.250 to 5.350 GHz 5.470 to 5.725 GHz 5.725 to 5.850 GHz
<b>MIMO, Streams</b>	2.4GHz : 2x2:2 MU-MIMO 5GHz : 4x4:4 MU-MIMO	<b>Power Supply</b>	802.3at PoE Injector, or PoE+ switch. 12V DC. 802.3af supported with 17dBm radio power
<b>Beamforming</b>	Supported	<b>Dimensions</b>	18.0 x 18.0 x 4.2 cm (7.1 x 7.1 x 1.65 Inch)
<b>Channel Width</b>	20MHz, 40MHz, 80MHz	<b>Weight</b>	558 g (1.2 lb)
<b>Concurrent Clients</b>	512	<b>Operating Temperature</b>	0°C to +50°C (+32°F to +122°F)
<b>SSIDs</b>	16	<b>Operating Humidity</b>	10% to 95% non-condensing
<b>Transmit Power</b> <i>(conducted total)</i>	2.4GHz : 24dBm    5GHz : 28dBm	<b>Power Consumed</b>	17.2W (max)
<b>Antenna Gain</b>	2.4GHz : 5.25dBi    5GHz : 6dBi	<b>LED</b>	Tri-color software controlled LED
<b>Max Data Rate</b>	2.4GHz : 400Mbps    5GHz : 1733Mbps	<b>Secure Mounting</b>	Kensington Key Slot
<b>Antenna</b>	Dual linear-polarized, Omnidirectional, integrated	<b>MTBF</b>	1,025,801 hrs at 50°C, 2,828,686 hrs at 25°C
<b>Bluetooth</b>	Bluetooth BLE Radio, 3.9dBi antenna.	<b>USB</b>	USB 2.0 Port
<b>Ethernet Ports</b>	Two auto-sensing Gigabit Ethernet (10/100/1000 Mbps)	<b>Reset Button</b>	Supported
<b>Radio Features</b>	Maximum ratio combining (MRC) Cyclic delay/shift diversity (CDD/CSD) Space-time blocking coding (STBC) Low-density parity check (LDPC) Packet Aggregation: A-MPDU, A-MSDU	<b>Certifications</b>	FCC, CE, IC, UL, EN60601-1-2 (Medical EMC), UL2043 Plenum WEEE/RoHS compliance
<b>Wi-Fi Alliance</b>	Wi-Fi certified a,b,g,n, ac WPA2 – Enterprise, Personal WMM, Passpoint <sup>†</sup> Test & Wi-Fi Alliance approval In Progress	<b>Mounting Options</b>	Wall and Ceiling mount bracket. Desktop option. T-Bar bracket supporting: 14mm, 24mm, 38mm.

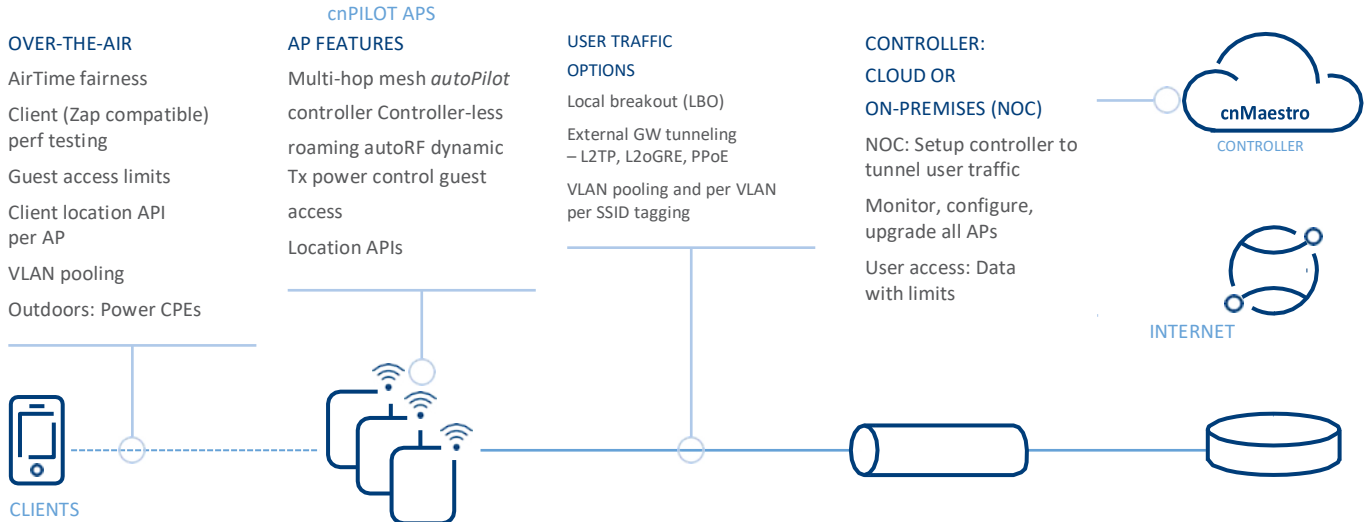
## Wi-Fi Features

<b>Management Modes</b>	cnMaestro cloud managed cnMaestro on-premises VM controller managed Autopilot (AP as controller) Standalone with AP GUI (http/https), CLI (telnet/ssh)	<b>Wireless Security</b>	WPA-TKIP, WPA2-AES, 802.11i WPA-PSK, WPA2-PSK, WPA2-Enterprise 802.1x Authentication with various EAP types (EAP-TLS, EAP-TTLS/MSCVAPv2, PEAPv0/EAP-MSCVAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-AKA', EAP-FAST Protected Management Frames (802.11w)
<b>RF Management</b>	AutoRF automatically manages channel and power	<b>Dynamic SSID Service</b>	By time/date, by monitored host.
<b>Guest Access Captive Portal</b>	cnMaestro Controller Portal. Integrates with 3 <sup>rd</sup> party Guest Access Portals. Built-in Portal on AP. LDAP & RADIUS authentication. Walled Garden with DNS whitelist. Wireless and Wired Clients supported.	<b>MAC Authentication</b>	On-AP MAC filtering list. On-Controller MAC filtering list. RADIUS MAC Authentication. MAC Authentication fallback to Captive Portal
<b>Rate Limiting</b>	Per-client, Per-WLAN static and dynamic rate limiting	<b>Firewall</b>	Layer-2, Layer-3 and DNS ACLs. DoS protection.
<b>Client Isolation</b>	On AP, Network-wide.	<b>3G/4G/LTE Offload</b>	Passpoint (Hotspot 2.0)
<b>Fast Roaming</b>	802.11r, Opportunistic Key Caching, Enhanced Roaming	<b>DHCP Relay</b>	Supported, with Option-82 customization
<b>Airtime</b>	Airtime Fairness, Band Steering, Band Balancing	<b>NMS Monitoring</b>	SNMP v1, v2c, v3
<b>AAA Support</b>	RADIUS Authentication, Accounting, Dynamic Authorization (CoA, DM). Server failover, load-balancing	<b>Client APIs</b>	Client Presence/Location API DNS, NAT and TCP Connecting Logging
<b>QoS</b>	802.11e/WMM QoS. DSCP/ToS mapping.	<b>Time Synchronization</b>	Auto (from controller), NTP
<b>Ethernet (L2) Services</b>	802.1p/802.q, RADIUS assigned VLAN, VLAN per SSID, VLAN pooling. LLDP. IGMP Snooping (V1/V2/V3).	<b>Troubleshooting Tools</b>	Packet Capture, Spectrum Analyzer, Ping, Traceroute, Syslogs
<b>Mesh</b>	WDS Mesh with Single and Multiple radio hops.	<b>Traffic Tunnels</b>	L2TP, L2oGRE, PPPoE
<b>Network Services</b>	NAT, DHCP Server	<b>3G/4G/LTE Backhaul</b>	Supported with USB-LTE Dongles.

## cnMaestro Controller and Network Manager

<b>Flexible Installation</b>	Cloud, Virtual Machine both supported.	<b>Integrated Guest Portal</b>	Customizable Splash Pages
<b>Network Mgmt</b>	Centralized Configuration, Statistics, Events, Firmware		SMS OTP Authentication
<b>Hierarchical Views</b>	Network topology mapped to sites and floors		Payment Gateways Support
<b>Floor Plans</b>	Upload custom floor plans and map APs		Voucher based authentication
<b>RESTful APIs</b>	Interface with external systems		Social Login

## THE ADAPTIVE cnPILOT NETWORK



## ORDERING INFORMATION

The cnPilot e600 indoor 802.11ac wave 2 access point is available in models with and without PoE injectors.  
 Regulatory model number (common to all skus) : cnPilot™ e600 indoor

## PART NUMBERS

<b>PL-E600PUSA-US</b>	cnPilot E600 Indoor (FCC, US cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
<b>PL-E600PEUA-EU</b>	cnPilot E600 Indoor (EU, EU cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
<b>PL-E600PXXA-RW</b>	cnPilot E600 Indoor (ROW, No cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
<b>PL-E600PEUA-RW</b>	cnPilot E600 Indoor (ROW with EU cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
<b>PL-E600PUKA-EU</b>	cnPilot E600 (EU with UK country cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
<b>PL-E600PUKA-RW</b>	cnPilot E600 (ROW with UK country cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
<b>PL-E600PUSA-RW</b>	cnPilot E600 (ROW with US country cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
<b>PL-E600PINA-RW</b>	cnPilot E600 (ROW with India country cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
<b>PL-E600PCNA-RW</b>	cnPilot E600 (ROW with China country cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
<b>PL-E600PANA-RW</b>	cnPilot E600 (ROW with AUS/NZ cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
<b>PL-E600PBRA-RW</b>	cnPilot E600 (ROW with Brazil cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
<b>PL-E600PARA-RW</b>	cnPilot E600 (ROW with Argentina cord) 802.11ac Wave 2, 4x4, AP with PoE Injector
<b>PL-E600X00A-US</b>	cnPilot E600 Indoor (FCC) 802.11ac wave 2, 4x4, AP
<b>PL-E600X00A-EU</b>	cnPilot E600 Indoor (EU) 802.11ac wave 2, 4x4, AP
<b>PL-E600X00A-RW</b>	cnPilot E600 Indoor (ROW) 802.11ac wave 2, 4x4, AP
<b>PL-E600X00A-JP</b>	cnPilot e600 Indoor (Japan) 802.11ac wave 2, 4x4, AP
<b>PL-E600X00A-IL</b>	cnPilot e600 Indoor (Israel) 802.11ac wave 2, 4x4, AP
<b>PL-E600X00A-LK</b>	cnPilot e600 Indoor (Sri Lanka) 802.11ac wave 2, 4x4, AP
<b>PL-E600X00A-CA</b>	cnPilot e600 Indoor (Canada) 802.11ac wave 2, 4x4, AP
<b>PL-E600X00A-EG</b>	cnPilot e600 Indoor (Egypt) 802.11ac wave 2, 4x4, AP
<b>PL-E600PJPA-JP</b>	cnPilot e600 Indoor (Japan, Japan Type A cord) 802.11ac wave 2, 4x4, AP with PoE Injector
<b>PL-E600PILA-IL</b>	cnPilot e600 Indoor (Israel, Israel Type H cord) 802.11ac wave 2, 4x4, AP with PoE Injector
<b>PL-E600PINA-LK</b>	cnPilot e600 Indoor (Sri Lanka, India Type D cord) 802.11ac wave 2, 4x4, AP with PoE Injector
<b>PL-E600PUSA-CA</b>	cnPilot e600 Indoor (Canada, US Type B cord) 802.11ac wave 2, 4x4, AP with PoE Injector
<b>PL-E600PEUA-EG</b>	cnPilot e600 Indoor (Egypt, Europe Type C cord) 802.11ac wave 2, 4x4, AP with PoE Injector
<b>N00000L034A</b>	PoE Gigabit Injector for cnPilot E600, 30W Output at 56V
<b>AX-12VDCXXA-WW</b>	12V/3.3A DC power supply (without cord)

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