cnPilot e600 Indoor

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

The High powered, Gigabit speed, beamforming, Multi-user MIMO (MU-MIMO) 802.11ac wave 2 e600 access point with a 4x4 array antenna array implements the latest standards. Perfect for just about any place needing high capacity throughput, high range, and/or high client capacity. Ideal workhorse to take on high traffic demand in Classrooms (Schools), Indoor public spaces, Malls, Hotels, or Enterprise offices

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 • Dashboard views with Alarms • Mass upgrade •
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: cnMaestro's **Guest access** feature supports splash page hosting, social login and payment gateway. All built-in power packed features available right on the controller! These features along with the ability to create time, rate and volume limited traffic profiles along with vouchers for temporary guest access makes the e600 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 e600 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 e600s or Indoor/Outdoor meshing across the Indoor e600 and the Outdoor e500 offers a convenient way to easily expand Wi-Fi coverage without wires.

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 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 e600 combines high density with high availability.

LICENSE FREE HIGH PERFORMANCE. ONE LOW PRICE.

The 802.11ac wave 2 e600 comes with a free controller, and no AP management license fees. One of the most competitively priced 4x4 Access point

SPECIFICATIONS

ACCESS POINT SPECIFICATIONS

Standards	IEEE 802.11a/b/g/n/ac Wave 2 | Other standards: 802.11 h/d/r/u/w/		Ethernet Ports	Two (2) x 1 Gigabit Ethernet (10/100/1000 Mbps)
MIMO Streams	2x2 (2.4 GHz) , 4x4 (5 GHz) MIMO streams.		12 V DC Input	Yes
Range	250 m (800 Ft)		Frequency bands	2.4 GHz: 2400-2484 MHz 5 GHz: 5150-5850 MHz with DFS band support
Concurrent Clients	512		Power Supply (Multiple choices)	Standard 802.3at injector (supplied), 802.3at PSE, 802.3af PSE (limited performance), 12V dc adapter (accessory or PoE switch
Max Data Rate	1.73 Gbps (1,733 Mbps)		Power Consumed	22 W (max)
SSID	16 SSIDs across 2 radios		Dimensions	180x180x42mm (or 18x18x4.2cm)
Standards	4.55 dBi (2.4 GHz)/4.25 dBi (5 GHz)		Weight	400 g
Multi-Hop Mesh	Yes. Supported on Indoor & Outdoor access points. Mesh auto-recovery supported		Temperature	0°C to +50°C
Polarization	Dual-linear		LED	Single LED window with tri color (Amber, Blue, Green) display
Antenna Coverage	Omni (360°)		Max TX Power	22 dBm
USB	Yes		Physical Lock	Kensington key hole
Bluetooth radio	Yes. BLE			
Controller modes	• Autonomous Controller-less operations (E.g.: roaming) • Cloud Managed • On-premise virtualized controller		Meshing	Multi-hop meshing supported (3)

SECURE WLAN / WI-FI FEATURES

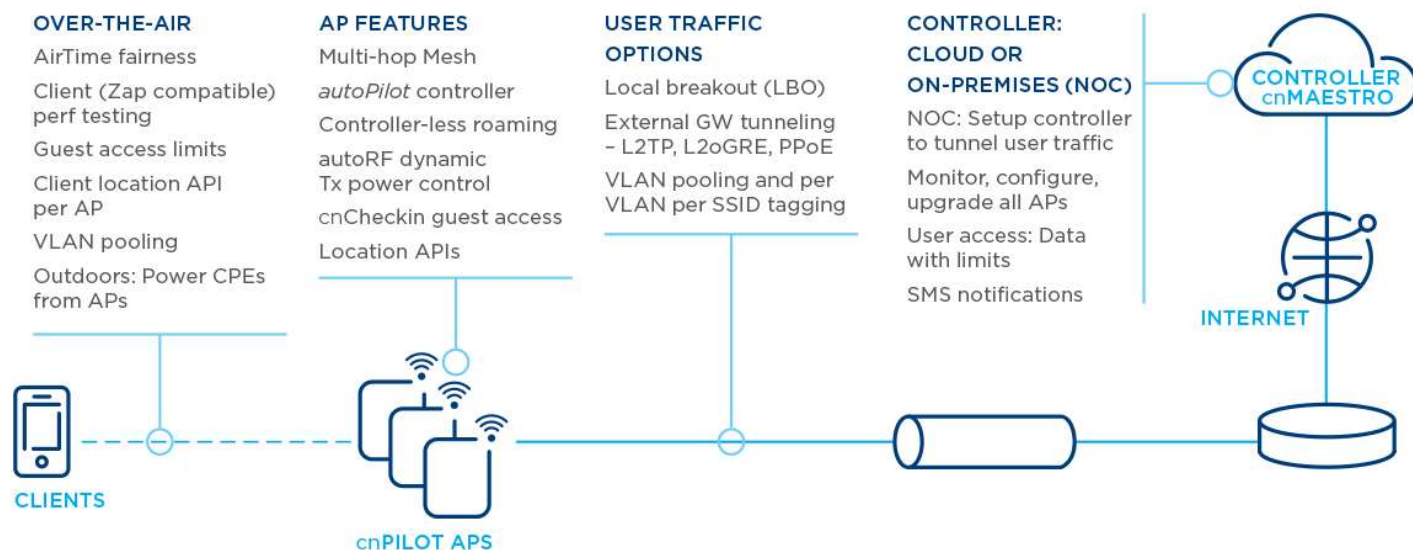|				
Secure WLAN	WPA-TKIP, WPA2 AES, 802.1x 802.11w (Protected Management Frames)		ACS: Automatic Channel Selection	Yes. Set at start or run periodically
Hotspot 2.0/Passpoint	Yes		NAT	Yes
Captive Portal/ Guest Access	• cnMaestro Controller • Redirection to external RADIUS Server • Stand-alone AP based • Active Directory Integration		DHCP Server	Yes
			Firewall	Yes. NAT 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)		ACL, DNS-ACL	Yes. L2, L3 or DNS based access control
			Band Steering Band Balancing	Yes
			Airtime Fairness	Yes
Accounting	Yes. Supports RADIUS based accounting to multiple AAAs		Tunneling	• L2TP • L2oGRE • PPPoE
Scheduled SSID	Turn SSID ON/OFF on a daily/weekly/time of day basis		Tools	• Packet capture • IP connectivity • Wi-Fi analyzer • Wireless Sniffer • Tech support (logs)
VLAN	Dynamic VLAN assignment from RADIUS server. VLAN per SSID per user			
Data Limiting	Dynamic rate limiting of client traffic per SSID		Services	NTP server config cnPilot's critical resource service awareness feature reacts to the Syslog servers health of an external Gateway or SNMP traps support AAA and turns SSID ON/OFF DNS proxy
Subscriber QoS	WMM			
Client Isolation	Yes		APIs	Presence Locationing API
Controller-Less Fast Roaming	Yes. 802.11r, Opportunistic Key Caching supports Enhanced roaming Disconnect for sticky clients		Certifications	FCC. ETSI. CE

cnMAESTRO WI-FI CONTROLLER

Cloud & On-Premises	Available in the Cloud or as a downloadable VMware® image (On-premises)		Key Stats Monitoring	7 day historic stats
			Portal Hosting	Setup Hotspot portals segmented by SSIDs
Common Manager	Manage both cnPilot and Cambium's ePMP and PMP 450 radios		Voucher	Time and Rate limited Guest access portals with Vouchers for 1,000 client devices
Troubleshooting	Single screen wireless view, showing Wireless backhaul, Access point & clients		Social Login	Facebook, Google
Frictionless On-Boarding	Secure large scale bulk onboarding Zero touch bulk configuration and provisioning		Site Grouping	Group sets access points for convenient management
			Client Insight	Shows client history with aggregate client manufacturer views
Device Inventory	Inventory tracking and reporting		Multiple Admins	Multiple admin provisioning per account
Monitoring	Insightful status monitoring; rich visibility to device lifecycle Alarms and events management – Critical/Major/Minor Statistics graphs and table display		Software Upgrade	Ability to upgrade multiple WiFi devices at a time

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

CONTROLLER cnMAESTRO

INTERNET

CLIENTS

cnPILOT APS

Ordering Information: The cnPilot e600 Indoor 802.11ac WAVE 2 Access point. Available in models with and without PoE Injectors

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Regulatory Model Number (common to all SKUs): cnPilot™ E600 Indoor

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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: **http://community.cambiumnetworks.com/**	

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