

cnPilot e700 **Outdoor Omni**

Gigabit IP67, 802.11ac wave 2, 8 dBi Outdoor Access Point

Standards-based beam forming for superior outdoor Wi-Fi



COST-EFFECTIVE, CONTROLLER-MANAGED WLAN ACCESS POINTS FOR:

- Enterprise and industrial campus
- Higher Education campus

Hospitality

• Public Wi-Fi

Operational superiority IP67 weather resilient Outdoor Access Point (AP) with 512 max concurrent client associations, 16 SSIDs, WPA-2 encryption, Meshing, Dynamic VLANs, DFS channels, Access control lists (ACL), zero touch provisioning and more - the 802.11ac wave2 powered e700 is perfect for today's demanding high density outdoor Wi-Fi networks.

High performance Wi-Fi Standards based beamforming, on 5 GHz over a 4x4 Tx/Rx antenna array, can steer beams to the target client device delivering superior performance under high interference RF environments in both downlink and uplink* directions. Enterprise grade controller-less roaming, dynamic channel selection, automatic transmit power control, and more such cnPilot platform features ensure a high grade superior Wi-Fi network

Mesh Rapidly setup multi-hop mesh networks either dedicating one radio (e.g.: 5 GHz) for mesh backhaul, or using both bands for simultaneous client and mesh access

Wireless Backhaul Integration Roll out Wi-Fi networks rapidly with Cambium's wireless backhaul powered from the aux PoE Out port on the e700 eliminating the need for a second power line. The aux PoE Out port can also power an 802.3af camera when security monitoring is needed near the hotspot

Resilience Dual on-board Active/Standby memory banks ensure higher availability. The e700 can store two versions of the software and if needed fall back to a working operational software, reducing the likelihood of site visits and increasing network up-time

DESIGNED FOR THE OUTDOORS

- 802.11ac, 512 users, 16 SSIDs
- Omni antenna
- UV rated IP-67 enclosure
- Max Operating Temp range: -40°C ~ +65°C
- Operating humidity: 10% to 95%
- Electrical heater for cold start
- Ruggedized; ESD protection, Industrial grade
- Packaged with wall mount brackets
- Special LTE resilience filtering
- 315 x 215 x 66 mm | 3.174 lbs (1700 gms)

cnMAESTRO™ - WI-FI CONTROLLER

• Guest Access: Custom Splash pages, Vouchers, Social login 😵 👖



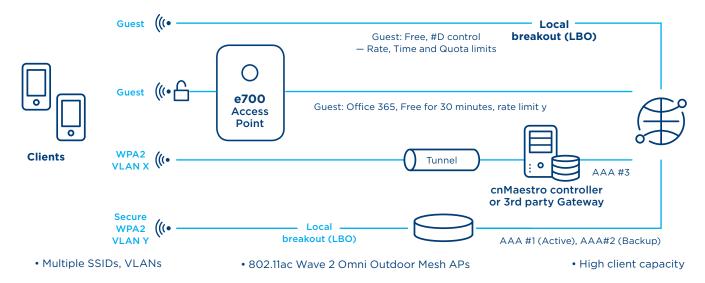
- Zero-touch Provisioning
- Inventory tracking
- Map location
- Monitoring: key Stats, Alarms
- Mass (bulk) upgrade
- Integrated troubleshooting: Wi-Fi APs, Clients & Cambium SMs
- · Available in Cloud or as Onpremises (NOC) Virtual controller







Multiple SSIDs (16), Multiple VLANs



SPECIFICATIONS

ACCESS POINT SPECIFICATIONS		
Frequency Bands	2.4 GHz: 2.4 – 2.4835 GHz Channels 1 – 13 (ETSI/CE), Channels 1 – 11 (US) 5 GHz: 5.15 – 5.85 GHz	
SSID Security	WPA-2 (802.11i): WPA2-Enterprise (802.1x/EAP) & WPA2-Preshared-keys, Open	
Max SSIDs	16	
Max Concurrent Clients	512	
Max Data Rates	2.4GHz: 400Mbps, 5GHz: 1733Mbps	
Ethernet Ports	Dual Gigabit Ethernet ports (2 x 10/100/1000Base-T)	
Antenna	Integrated Omni	
Antenna Gain	8 dBi (2.4 GHz and 5 GHz)	
Power Supply	60W Gigabit passive PoE injector	
POE Out	Aux port: capable of 802.3af out or Canopy power (for supported Cambium ePMP or PMP450 SMs)	
Transmit Power	25 dBm @ 2.4GHz 28 dBm @ 5 GHz	
Power Consumed	Typical 18W. Max 24.6W	
Dimensions (cm)	315 x 215 x 66 mm (without bracket)	
Weight	3.174 lbs (1700 gms) without bracket	
Operating Temperature	-40°C ~ +65°C (when aux PoE out port is not used) or -40°C ~ +60°C* (when aux PoE out port is used)	
Operating Humidity	10% ~ 95%	
Mounting Options	Pole mount bracket (included) or wall-mount (with included bracket or without)	
LTE Co-Existence	Special filter for rejecting interference on 2.4 GHz from adjacent LTE bands 38, 40	
Phyiscal Security	Kensington Lock bracket	
Visual Status	Two (2) multi-color LEDs indicating Access Point & cnMaestro connectivity status	

SPECIFICATIONS

WI-FI FEATURES		
Controller modes	Autonomous Controller-less operations (E.g.: roaming) Cloud Managed	
Secure WLAN	WPA-TKIP, WPA2 AES, 802.1x 802.11w (Protected Management Frames)	
Hotspot 2.0	Passpoint supported	
Captive Portal	• cnMaestro Controller • Redirection to external RADIUS • Stand-alone AP based • Server DNS logging	
Authentication	 RADIUS based 802.1x including EAP-SIM/AKA, EAP-PEAP, EAP-TTLS, and EAP-TLS MAC auth (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 • Vouchers • Rate limiting • Splash page creation on cnMaestro	
VLAN	VLAN pooling, Dynamic VLAN 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 Roaming	Yes. 802.11r, Opportunistic Key Caching supports Enhanced roaming. Disconnect for sticky clients	
Airtime Fairness	Yes	

Mesh	Multi-hop meshing	
ACS: Automatic Channel Selection	autoTune: Autonomous dynamic off-channel scans w/o disconnecting clients. Periodic scans and scheduled scan	ning
Automatic Tx Power Control	autoRF: Autonomous controller-less transmit power cont	trol
NAT	Yes	
DHCP Server	Yes	
Firewall	Yes. NAT logging	
ACL, DNS-ACL	Yes. L2, L3 or DNS based access control	
Band Balancing	Yes	
Tunneling	• L2TP • L2oGRE • PPPoE	
Tools	Packet capture IP connectivity Wi-Fi anal Sniffer Auto logging Open source ZapD compliant performance test tool	lyzer
Services	NTP server config cnPilot's dependent resource st Syslog servers awareness feature (ADRES) tur SNMP traps support SSID ON/OFF based on underly DNS proxy resource connectivity state	ns
APIs	Presence Location APIs	
Certifications	FCC, ETSI, CE EN 60601-1-2 (Medical EMC)	

cnMAESTRO WI-FI CONTROLLER

Common Manager	Single pane of glass: Controller for Wi-Fi and network manager for ePMP and PMP wireless backhaul products
On-Boarding	Secure zero touch fast on-boarding
Provisioning	Easy zero touch virtual network provisioning Provision before install (pre-provision)
Device Inventory	Inventory tracking
Troubleshooting	ezDetect: Advanced end to end troubleshooting of WiFi Access Point and Client devices on one single screen. Extends to Wireless backhaul (PTP), Wi-Fi Hotspot & Clients. Includes Packet capture and Wireless Analyzer functions
Intuitive Views	Map location . Hierarchical Dashboard views
Client Insight	Client history with client manufacturer view
Monitoring & Alarms	Alarms and events management – Critical/Major/Minor Key statistics graphs and <i>sticky</i> alarm summary display
Configuration	GUI based configuration or template based configuration options
Software Upgrade	Bulk upgrade with ability to upgrade multiple WiFi APs
Multiple Admins	Multiple admin provisioning per account
Guest Portal	Customizable portal with session controls by Time, Rate and Bytes. Social login, SMS Auth, Vouchers

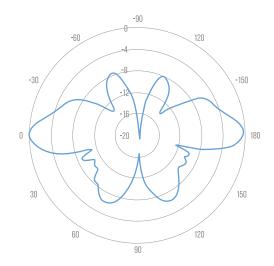
SPECIFICATIONS

2D Gain Patterns

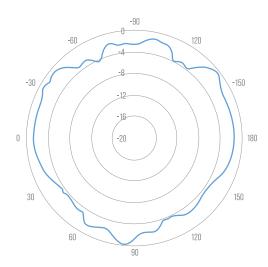
2.4 GHz Azimuth (Horizontal) Gain Pattern

-90 -60 -120 -150 -150 -150 -150 -150 -150

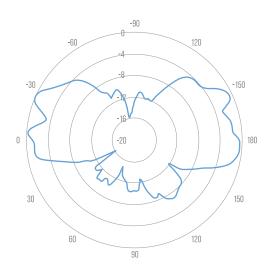
2.4 GHz Elevation (Vertical) Gain pattern



5 GHz Azimuth (Horizontal) Gain Pattern



5 GHz Elevation (Vertical) Gain pattern



ORDERING INFORMATION: cnPILOT E700

Regulatory Model Number (common to all SKUs): cnPilot e700 Outdoor

Sales part #	Region	
PL-E700PXXA- <us eu="" row=""></us>	e700 for US, EU or RoW with PoE injector. XX = US, EU, IN (India), UK (The United Kingdom), AN (Australia & NZ), CN (China), BR (Brazil) etc.	
PL-E700NPSA- <us eu="" row=""></us>	e700 without a PoE-In injector	

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