

cnPilot e700 Outdoor Omni

Gigabit IP67, 802.11ac wave 2, 8 dBi

Outdoor Wi-Fi 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 supports both Cambium-PoE as well as standard 802.3af, so can power a 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. Standard 3 year warranty included, for peace of mind.

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 : up to 95%
- Electrical heater for cold start
- Ruggedized; ESD protection, Industrial grade
- Packaged with wall mount brackets
- Special LTE resilience filtering

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
- RESTful APIs
- Reporting Framework
- Integrated troubleshooting: Wi-Fi APs, Clients & Cambium SMs
- Available in Cloud or as On-premises (NOC) Virtual controller



SPECIFICATIONS

Access Point Specifications

Standards	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	Frequency Bands	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
MIMO, Streams	2.4GHz : 2x2:2 MU-MIMO 5GHz : 4x4:4 MU-MIMO	Power Supply	802.3at PoE Injector, or PoE+ switch. 12V DC. 802.3af with 17dBm radio power per chain
Beamforming	Supported	Dimensions	31.5 x 21.6 x 6.6 cm (12.04 x 8.5 x 2.59 Inch)
Channel Width	20MHz, 40MHz, 80MHz	Weight	1700 gm (3.74 lb)
Concurrent Clients	512	Operating Temperature	-40°C to +65°C (-40°F to +149°F)
SSIDs	16 SSIDs	Operating Humidity	up to 95% non-condensing
Transmit Power <i>(conducted total)</i>	2.4GHz : 25dBm 5GHz : 28dBm	Power Consumed	17.2W (max, without PoE out) 30.2W (if auxiliary device powered on PoE-out)
Antenna Gain	2.4GHz : 8dBi 5GHz : 8dBi	LED	Two Multi-color software controlled LEDs
Max Data Rate	2.4GHz : 400Mbps 5GHz : 1733Mbps	Secure Mounting	Kensington Key Slot, Torx Screw mounting.
Antenna	Dual linear-polarized, Omnidirectional, integrated	MTBF	304,721 hrs at 65C, 2,283,737 hrs at 25C
Bluetooth	Bluetooth 4 BLE Radio.	Environment rating	IP67
Ethernet Ports	Two auto-sensing Gigabit Ethernet (10/100/1000 Mbps)	PoE-Out	Aux Port supports Cambium and 802.3af modes
Radio Features	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	Reset Button	Supported
Wi-Fi Alliance	Wi-Fi certified a,b,g,n,ac WPA2 – Enterprise, Personal WMM, Passpoint	Certifications	FCC, CE, IC, UL, ETSI EN60601-1-2 (Medical EMC), WEEE/RoHS compliance,
		Mounting Options	Wall and Pole mount bracket. Pole size supported: 38.1mm to 76.2mm.

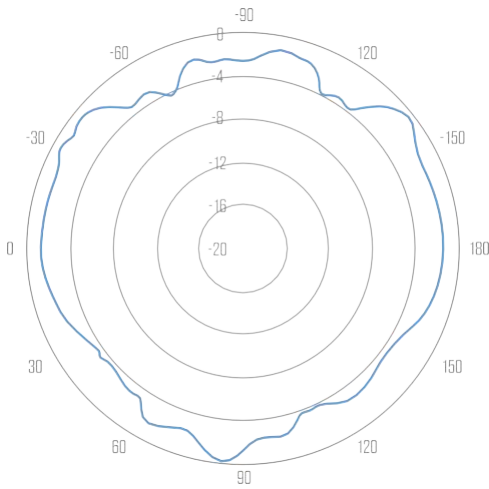
Wi-Fi Features

Management Modes	cnMaestro cloud managed cnMaestro on-premises VM controller managed Autopilot (AP as controller) Standalone with AP GUI (http/https), CLI (telnet/ssh)	Wireless Security	WPA-TKIP, WPA2-AES, 802.11i WPA-PSK, WPA2-PSK, WPA2-Enterprise 802.1x Authentication with various EAP types (EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP-AKA, EAP-AKA', EAP-FAST Protected Management Frames (802.11w)
RF Management	AutoRF automatically manages channel and power	Dynamic SSID Service	By time/date, by monitored host.
Guest Access Captive Portal	cnMaestro Controller Portal Integrates with 3 rd party Guest Access Portals Built-in Portal on AP LDAP & RADIUS authentication Walled Garden with DNS whitelist Wireless as well as Wired devices supported.	MAC Authentication	On-AP MAC filtering list. On-Controller MAC filtering list. RADIUS MAC Authentication. MAC Authentication fallback to Captive Portal
Rate Limiting	Per-client, Per-WLAN static and dynamic rate limiting	Firewall	Layer-2, Layer-3, DNS ACLs. DoS attack protection
Client Isolation	On AP, Network-wide.	3G/4G/LTE Offload	Passpoint (Hotspot 2.0)
Fast Roaming	802.11r, Opportunistic Key Caching, Enhanced Roaming	DHCP Relay	Supported, with Option-82 customization
Airtime Mgmt	Airtime Fairness, Band Steering, Band Balancing	NMS Monitoring	SNMP v1, v2c, v3
AAA Support	RADIUS Authentication, Accounting, Dynamic Authorization (CoA, DM). Server failover, load-balancing	Client APIs	Client Presence/Location API DNS, NAT and TCP Connecting Logging
QoS	802.11e/WMM QoS. DSCP/ToS mapping.	Time Synchronization	Auto (from controller), NTP
Ethernet (L2) Services	802.1p/802.q, RADIUS assigned VLAN, VLAN per SSID, VLAN pooling. LLDP. IGMP Snooping (v1/v2/v3)	Troubleshooting Tools	Packet Capture, Spectrum Analyzer, Ping, Traceroute, Syslogs
Mesh	WDS Mesh with Single and Multiple radio hops.	Traffic Tunnels	L2TP, L2oGRE, PPPoE
Network Services	NAT, DHCP Server		

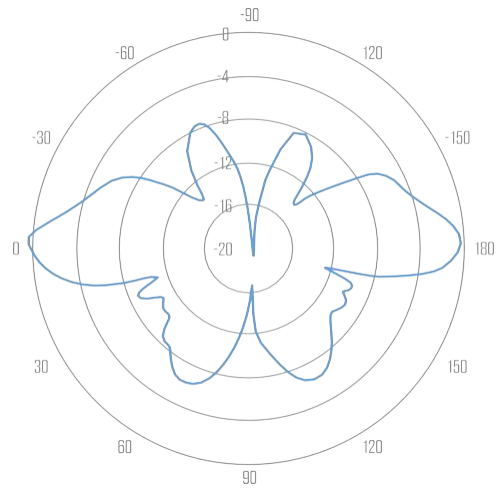
SPECIFICATIONS

2D Gain Patterns

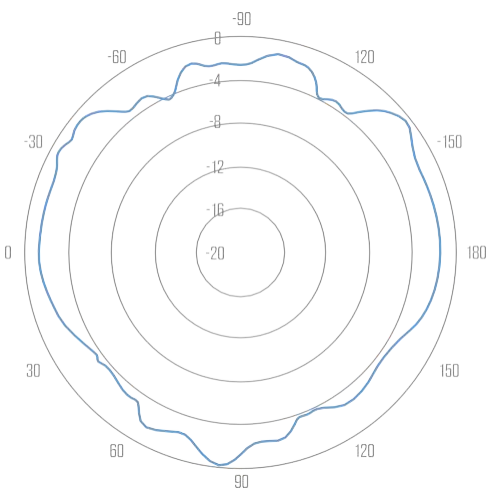
2.4 GHz Azimuth (Horizontal) Gain Pattern



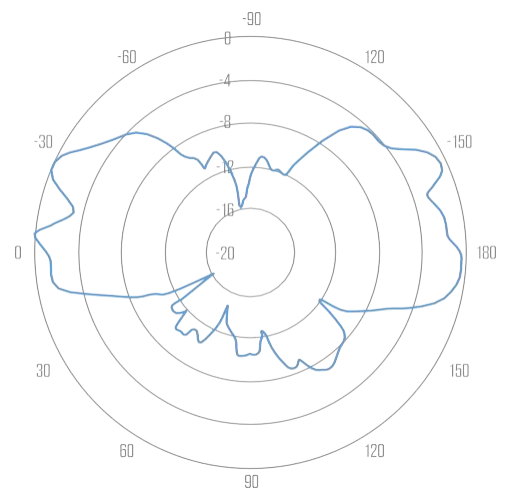
2.4 GHz Elevation (Vertical) Gain pattern



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-E700YXXA-<US/EU/CA/IL/JP/EG/LK/RW>

Y = if this position has a "p", then that SKU includes a PoE Injector and localized AC line cord
 Y = if this position has a "X", then that SKU does not include a PoE Injector or AC line cord. YY will always be "00"
 XX = if this position has a two-digit country code, then a localized AC line cord is included for the specified country code The following countries require a unique two-digit regulatory country code appended to the part number:
 United States (US), Canada (CA), Europe (EU), Israel (IL), Egypt (EG), Sri Lanka (LK). For other certified countries, use the Rest of World (RW) two-digit country code

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