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

WiFi CERTIFIED®

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** *(Country-specific limits apply, some bands require DFS)*	2.400 to 2.2484 GHz 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 *(conducted total)*	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
		Environment rating	IP67
Bluetooth	Bluetooth 4 BLE Radio.	**PoE-Out**	Aux Port supports Cambium and 802.3af modes
Ethernet Ports	Two auto-sensing Gigabit Ethernet (10/100/1000 Mbps)	**Reset Button**	Supported
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	**Certifications**	FCC, CE, IC, UL, ETSI EN60601-1-2 (Medical EMC), WEEE/RoHS compliance,
Wi-Fi Alliance	Wi-Fi certified a,b,g,n,ac WPA2 – Enterprise, Personal WMM, Passpoint	**Mounting Options**	Wall and Pole mount bracket. Pole size supported: 38.1mm to 76.2mm.

Wi-Fi Features

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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 3rd 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
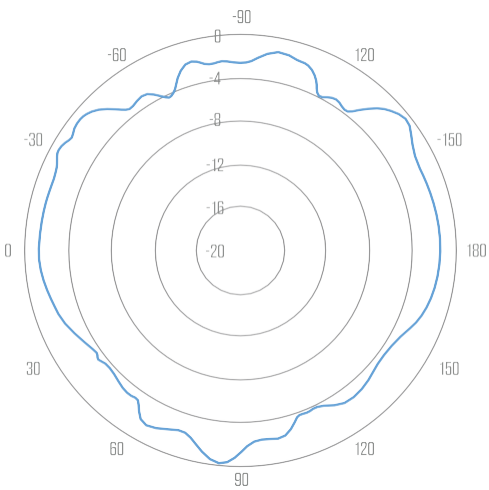
2D Gain Patterns

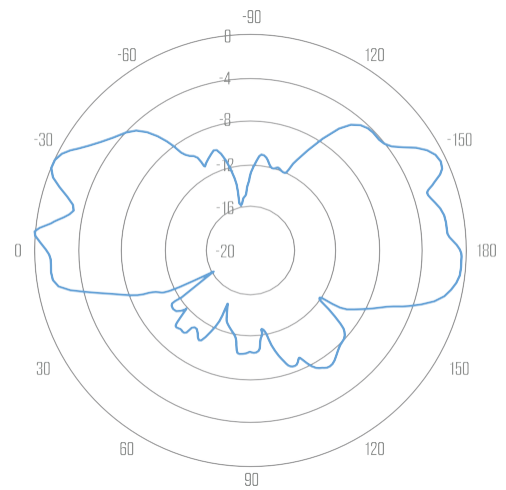### 2.4 GHz Azimuth (Horizontal) Gain Pattern
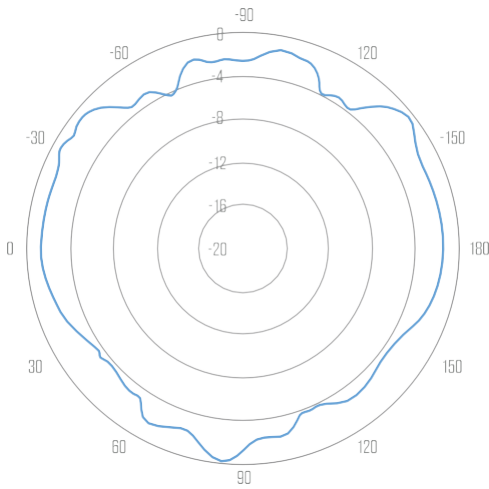
2.4 GHz Elevation (Vertical) Gain pattern
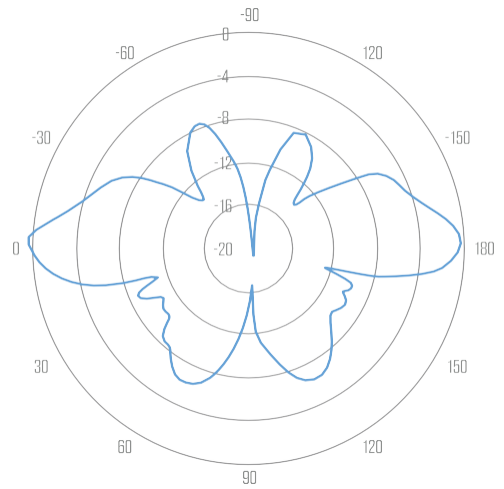
5 GHz Azimuth (Horizontal) Gain Pattern

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/