

cnPilot™ e505

IP67 802.11ac wave 2
Outdoor Access Point



Enterprise grade 802.11 Wi-Fi access in outdoor high-density networks.
Ideal for 360-degree coverage in Public Wi-Fi, Hospitality, Enterprise
Small form factor hides easily

LARGE DISTRIBUTED OUTDOOR WI-FI COVERAGE

The cnPilot e505 is a small form factor, easily hidden outdoor wireless access point. With an omni antenna, small size and internal antennas, the e505 can be part of a large distributed area outdoor wireless network. Ideal for public parks, venues, beach side or rural village Wi-Fi hotspot.

As part of the cnPilot family of Enterprise grade 802.11 access points, the e505 is RF aware and self-optimizing for the RF environment. cnPilot Outdoor access points provide seamless roaming from indoor to outdoor without requiring controller interaction. Integrated troubleshooting tools provide remote access for packet capture, client statistics, operational and RF statistics, and RF scanning for interference, channel utilization, and noise floor scan.

ENTERPRISE GRADE MESH

cnPilot e505 features include multi-hop MESH that puts flexibility into the hands of the network admin. Select the band to use for MESH (either 2.4 GHz or 5 GHz); and set whether clients can access the network on one or both bands. Auto-MESH discovers a Cambium Networks MESH link with policy based secure access. Once adopted, cnMaestro provides the correct policy-based provisioning rules for the access point.

cnMAESTRO™ SINGLE PANE OF GLASS

All Cambium Networks enterprise 802.11 and broadband point to point and point to multi-point access points are supported by the cnMaestro controller.

SMALL FORM FACTOR OUTDOOR WI-FI AP

802.11ac wave2, multi-user MIMO, beam steering, VHT rates, airtime fairness
360-degree antenna coverage
UV rated IP67 enclosure
Light weight - less than 800g

cnMAESTRO WI-FI CONTROLLER

Admin, tenant role-based access
Help desk troubleshooting tools
Single pane of glass
Zero-touch provisioning
Bulk onboarding
Device inventory reports
Key metrics dashboard
Detailed reports
Guest access; custom splash pages, vouchers, social login
Map location
Client connection details

802.11AC CAPABILITIES

802.11a/b/g/n/AC wave 2, 2x2:2:2, MIMO, MU-MIMO, VHT MCS rates, 16/64/256-QAM, HT20/40/80 MHz, Transmit Beam steering, Airtime Fairness. Packet Aggregation (AMSDU, AMPDU) RIFS, STBC, LDPC, MIMO Power Save, MRC. BPSK, QPSK, CCK, DSSS, OFDM. IEEE 802.11d/e/h/i/k/r/u/v/w

ACCESS POINT SPECIFICATIONS

US-FCC

2400 – 2484 MHz, 5150 – 5250 MHz, 5725 – 5850 MHz

Industry Canada (ISED)

2400 – 2484 MHz, 5150 – 5250 MHz, 5725 – 5850 MHz

EU-ETSI

2400 – 2484 MHz, 5150 – 5250 MHz

ROW (individual country limits may apply)

2400 – 2500 MHz, 5150 – 5850 MHz

Max EIRP 2.4 GHz: 25 dBm
5 GHz: 25 dBm

(EIRP may be limited by individual country regulation)

Power 802.3af or 802.3at Powered Device
Max 12.95w (802.3af)

Physical Environmental IP67 rated housing
Wind Resistance 224 kph
320mm x 215mm x 65mm
1100g
Kensington lock slot
Two multi-color status LEDs
-30C - + 60C ambient op temp
-40C - + 70C storage temperature
95% RH non-condensing
Overvoltage protection, category 1

Certifications WiFi Alliance 80211a/b/g/n/ac, PP2.0
FCC, ETSI, CE, EN 60601-1-2, IEC60950

SSID Security WPA2 (802.11i), WPA2 Enterprise (802.1x/EAP), WPA PSK, Open

Max PHY Rate 2.4 GHz radio: 300 Mbps
5 GHz radio: 867 Mbps

Ethernet Ports One IEEE Gigabit Ethernet auto sensing

Antenna Integrated dual polarized,
5dBi (2.4GHz) 5dBi (5GHz)
Omni directional polar diversity

WLAN AND NETWORK SPECIFICATIONS

Controller Mode Controller-less standalone
AutoPilot heterogeneous network
Cloud managed cnMaestro
On-premises cnMaestro VM

WLAN 256 clients, 16 SSIDs
WPA-TKIP, WPA2 AES, 802.1x
802.11w PMF

Captive Portal Hosted on cnMaestro Controller
On-AP hosted guest portal
Redirect to HTTP/RADIUS
Server DNS logging

Authentication Hotspot 2.0/Passpoint 2.0
802.1x EAP-SIM/AKA, EAP-PEAP, EAP-TTLS, EAP-TLS
MAC authentication to local database or external
RADIUS

Accounting RADIUS accounting, multiple AAA

Scheduled WLAN On/off by day, week, time of day

Guest Access Vouchers, Rate Limit, Splash page hosted on AP or
cnMaestro
Client isolation per SSID, per network

Data Limit Client rate limit per SSID

Subscriber QoS WMM

Fast Roaming 802.11r, OKC, Enhanced roaming

Mesh Multi-hop, either band

Channel Selection autoTune: Manual, or automatic
Selectable off-channel scan

Auto TX Power AutoRF: controller-less transmit power

Network NAT, NAT logging firewall, DHCP server
L2, L3 or DNS based access control
VLAN Pooling, RADIUS attribute VID
VLAN per SSID per user

Band Steer Load Balance Yes

Tunnel L2TP, L2oGRE, PPPoE

Tools Remote Packet capture, Channel/noise/interference
analyzer, auto logging, ZapD performance test tool,
rogue AP detection

Services NTP, Syslog, SNMP traps, DNS proxy, auto-off on WAN
failure

API RESTful management and statistics API
Presence location APIs

ORDERING INFORMATION

PL-E505X00A-US	cnPilot e505 Outdoor AP (FCC) 802.11ac wave 2, 2x2/2x2, 5 dBi, IP67
PL-E505X00A-EU	cnPilot e505 Outdoor AP (EU) 802.11ac wave 2, 2x2/2x2, 5 dBi, IP67
PL-E505X00A-RW	cnPilot e505 Outdoor AP (ROW) 802.11ac wave 2, 2x2/2x2, 5 dBi, IP67
PL-E505PUSA-US	cnPilot e505 Outdoor AP (FCC, US cord) 802.11ac Wave 2, 2x2/2x2, 5 dBi, IP67, PoE Injector
PL-E505PEUA-EU	cnPilot e505 Outdoor AP (EU, EU cord) 802.11ac Wave 2, 2x2/2x2, 5 dBi, IP67, PoE Injector
PL-E505PXXA-RW	cnPilot e505 Outdoor AP (ROW, No cord) 802.11ac Wave 2, 2x2/2x2, 5 dBi, IP67, PoE Injector
PL-E505PEUA-RW	cnPilot e505 Outdoor AP (ROW, EU cord) 802.11ac Wave 2, 2x2/2x2, 5 dBi, IP67, PoE Injector
PL-E505PUKA-EU	cnPilot e505 Outdoor AP (EU, UK cord) 802.11ac Wave 2, 2x2/2x2, 5 dBi, IP67, PoE Injector
PL-E505PUKA-RW	cnPilot e505 Outdoor AP (ROW, UK cord) 802.11ac Wave 2, 2x2/2x2, 5 dBi, IP67, PoE Injector
PL-E505PUSA-RW	cnPilot e505 Outdoor AP (ROW, US cord) 802.11ac Wave 2, 2x2/2x2, 5 dBi, IP67, PoE Injector
PL-E505PINA-RW	cnPilot e505 Outdoor AP (ROW, India cord) 802.11ac Wave 2, 2x2/2x2, 5 dBi, IP67, PoE Injector
PL-E505PCNA-RW	cnPilot e505 Outdoor AP (ROW, China cord) 802.11ac Wave 2, 2x2/2x2, 5 dBi, IP67, PoE Injector
PL-E505PANA-RW	cnPilot e505 Outdoor AP (ROW, AUS/NZ cord) 802.11ac Wave 2, 2x2/2x2, 5 dBi, IP67, PoE Injector
PL-E505PBRA-RW	cnPilot e505 Outdoor AP (ROW, BR cord) 802.11ac Wave 2, 2x2/2x2, 5 dBi, IP67, PoE Injector
PL-E505PARA-RW	cnPilot e505 Outdoor AP (ROW, AR cord) 802.11ac Wave 2, 2x2/2x2, 5 dBi, IP67, PoE Injector

Not all SKUs are available at first release. Consult a Cambium Networks distributor for country availability

ABOUT CAMBIUM NETWORKS

Cambium Networks is a leading global provider of wireless connectivity solutions that strengthen connections between people, places and things. Specializing in providing an end-to-end wireless fabric of reliable, scalable, secure, cloud-managed platforms that perform under demanding conditions, Cambium Networks empowers service providers and enterprise, industrial and government network operators to build intelligent edge connectivity. Cambium Networks' commitment to continuous innovation in wireless access is demonstrated in the millions of radios deployed in thousands of networks that benefit communities around the world. Team members also contribute to social responsibility activities to serve the communities in which they live. Headquartered outside Chicago and with R&D centers in the U.S., U.K. and India, Cambium Networks sells through a range of trusted global distributors.

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