

cn**Pilot e**502S Outdoor Sector AP

IP67 802.11ac 30° Outdoor Narrow Sector Access Point





Perfect for high density applications – stadiums, event coverage, public Wi-Fi in high noise environments, narrow aisle coverage in warehouses, and more – requiring cost-effective, controller managed WLAN access points

HIGHLIGHTS

Operational superiority - The e502S with an integrated sector antenna supports 256 max client associations, 16 SSIDs, WPA-2 encryption, Dynamic VLANs, DFS channels, Access control lists (ACL), and more. The 802.11ac e502S is the essential workhorse for today's demanding high density outdoor Wi-Fi networks.

High performance Wi-Fi network - All cnPilot's Enterprise access points (APs) support features like controller-less roaming, dynamic channel selection, automatic transmit power control, band steering, and more – essential features for easy Wi-Fi operations.

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

Wireless Backhaul Integration – the aux PoE port on the e502S offers PoE out eliminating the need for a second power line – perfect for powering on a standard 802.3af camera, or powering on Cambium's PMP 450 or ePMP backhaul subscriber modules (SMs) for wireless backhaul enabled Wi-Fi hotspots.

Resilience - Dual on-board Active/Standby memory banks ensure higher availability. The e502S 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 uptime. Standard 3 year Warranty included, for peace of mind.

DESIGNED FOR THE OUTDOORS

- 802.11ac, 256 users, 16 SSIDs
- 30° coverage
- 23 dB front-back ratio
- Tx Power: 29 dBm
- Ant gain: 12.5/15.9 dBi
- UV rated IP-67
- Operating Temp: -30°C ~ +60°C
- Electrical heater for cold start
- Industrial grade components
- Packaged with wall mount brackets
- Special LTE coexistence filters
- Light weight ~ 1Kg

cnMAESTRO™ – WI-FI CONTROLLER

• Guest Access: Custom splashpages, vouchers, social login

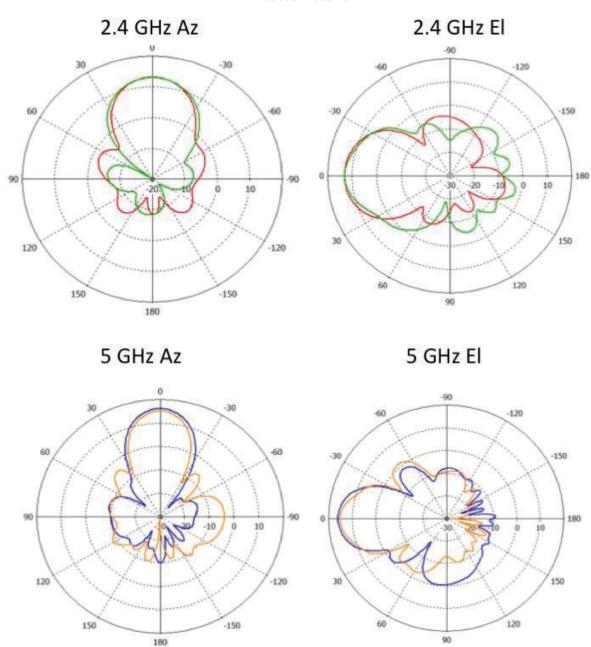


- · Zero-touch provisioning
- Inventory tracking
- Map location
- Monitoring: key stats, alarms
- mass (bulk) upgrade
- Integrated troubleshooting: Wi-FiAPs, clients
 & Cambium SMs
- Controller: Cloud or Virtual On-premises (NOC) controller

SPECIFICATIONS

Access Point Sp	ecifications		
Standards	IEEE 802.11a/b/g/n/ac	Frequency Bands	2.400 to 2.2484 GHz
	IEEE 802.11d/e/h/i/k/r/u/v/w	(Country-specific limits	5.150 to 5.250 GHz
	Modulation: BPSK, QPSK, CCK, 16/64/256-QAM	apply, some bands	5.250 to 5.350 GHz
	Radio modes : DSSS, OFDM	require DFS)	5.470 to 5.725 GHz
			5.725 to 5.850 GHz
MIMO, Streams	2x2:2 MIMO	Power Supply	802.3af PoE Injector, or PoE switch.
			802.3at or PoE+ if using PoE-Out Aux port.
Channel Width	20MHz, 40MHz, 80MHz	Dimensions	30 x 20.4 x 6.5 cm (11.8 x 8 x 2.55 Inch)
Concurrent Clients	256	Weight	1.3 Kg (2.8 lb)
SSIDs	16	Operating Temperature	-30°C to +60°C (-22°F to +140°F)
Antenna	Dual polarized, Omnidirectional, Integrated	Operating Humidity	up to 95% non-condensing
Fransmit Power	2.4GHz : 29dBm 5GHz : 28dBm	Power Consumed	13W (max, without PoE-out)
conducted total)			8W (typical)
Antenna Gain	2.4GHz : 12.8dBi 5GHz : 16.9dBi	Secure Mounting	Kensington Key Slot
∕lax Data Rate	2.4GHz : 300Mbps 5GHz : 867Mbps	Environment Rating	IP67
.ED	Two multi-color software controlled LEDs	MTBF	2,331,610 Hours
nterference Mgmt	Hardware LTE Filtering	PoE-Out	Aux Port supports Cambium and 802.3af modes
thernet Ports	Two auto-sensing auto MDIX Gigabit Ethernet	Reset Button	Supported
	(10/100/1000 Mbps) RJ45 Ports		
Radio Features	Maximum ratio combining (MRC)	Certifications	FCC, CE, IC, UL,
	Cyclic delay/shift diversity (CDD/CSD)		EN60601-1-2 (Medical EMC),
	Space-time blocking coding (STBC)		WEEE/RoHS compliance
	Low-density parity check (LDPC)		
	Packet Aggregation: A-MPDU, A-MSDU		
Wi-Fi Alliance	Wi-Fi certified a,b,g,n,ac	Mounting Options	Wall and Pole mount bracket.
	WPA2 – Enterprise, Personal		Supports Poles with 1.5" and 3" Diameter.
	WMM, Passpoint		
Wi-Fi Features			WPA TWP WPAG A55 000 44:
Management Modes	cnMaestro cloud managed	Wireless Security	WPA-TKIP, WPA2-AES, 802.11i
vioues	cnMaestro on-premises VM controller managed		WPA-PSK, WPA2-PSK, WPA2-Enterprise
	Autopilot (AP as controller)		802.1x Authentication with various EAP types (EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-
	Standalone with AP GUI (http/https), CLI (telnet/ssh)		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	MAC Authentication	On-AP MAC filtering list.
	Integrates with 3 rd party Guest Access Portals		On-Controller MAC filtering list.
	Built-in Portal on AP		RADIUS MAC Authentication.
	LDAP & RADIUS authentication		MAC Authentication fallback to Captive Portal
	Walled Garden with DNS whitelist		
	Walled Garden with DNS whitelist Wireless as well as Wired devices supported.		
Rate Limiting		Firewall	Layer-2, Layer-3, DNS ACL. DoS Attack Protection
······································	Wireless as well as Wired devices supported.	Firewall 3G/4G/LTE Offload	Layer-2, Layer-3, DNS ACL. DoS Attack Protection Passpoint (Hotspot 2.0)
Client Isolation	Wireless as well as Wired devices supported. Per-client, Per-WLAN static and dynamic rate limiting		
Client Isolation Fast Roaming	Wireless as well as Wired devices supported. Per-client, Per-WLAN static and dynamic rate limiting On AP, Network-wide.	3G/4G/LTE Offload	Passpoint (Hotspot 2.0)
Client Isolation Fast Roaming Airtime Mgmt	Wireless as well as Wired devices supported. Per-client, Per-WLAN static and dynamic rate limiting On AP, Network-wide. 802.11r, Opportunistic Key Caching, Enhanced Roaming	3G/4G/LTE Offload DHCP Relay	Passpoint (Hotspot 2.0) Supported, with Option-82 customization
Client Isolation East Roaming Airtime Mgmt	Wireless as well as Wired devices supported. Per-client, Per-WLAN static and dynamic rate limiting On AP, Network-wide. 802.11r, Opportunistic Key Caching, Enhanced Roaming Airtime Fairness, Band Steering, Band Balancing	3G/4G/LTE Offload DHCP Relay NMS Monitoring	Passpoint (Hotspot 2.0) Supported, with Option-82 customization SNMP v1, v2c, v3
Client Isolation Fast Roaming Airtime Mgmt AAA Support	Wireless as well as Wired devices supported. Per-client, Per-WLAN static and dynamic rate limiting On AP, Network-wide. 802.11r, Opportunistic Key Caching, Enhanced Roaming Airtime Fairness, Band Steering, Band Balancing RADIUS Authentication, Accounting, Dynamic	3G/4G/LTE Offload DHCP Relay NMS Monitoring	Passpoint (Hotspot 2.0) Supported, with Option-82 customization SNMP v1, v2c, v3 Client Presence/Location API
Rate Limiting Client Isolation Fast Roaming Airtime Mgmt AAA Support QoS Ethernet (L2)	Wireless as well as Wired devices supported. Per-client, Per-WLAN static and dynamic rate limiting On AP, Network-wide. 802.11r, Opportunistic Key Caching, Enhanced Roaming Airtime Fairness, Band Steering, Band Balancing RADIUS Authentication, Accounting, Dynamic Authorization (CoA, DM). Server failover, load-balancing	3G/4G/LTE Offload DHCP Relay NMS Monitoring Client APIs	Passpoint (Hotspot 2.0) Supported, with Option-82 customization SNMP v1, v2c, v3 Client Presence/Location API DNS, NAT and TCP Connecting Logging
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Client Isolation Fast Roaming Airtime Mgmt AAA Support QOS Ethernet (L2)	Wireless as well as Wired devices supported. Per-client, Per-WLAN static and dynamic rate limiting On AP, Network-wide. 802.11r, Opportunistic Key Caching, Enhanced Roaming Airtime Fairness, Band Steering, Band Balancing RADIUS Authentication, Accounting, Dynamic Authorization (CoA, DM). Server failover, load-balancing 802.11e/WMM QoS. DSCP/ToS mapping. 802.1p/802.q, RADIUS assigned VLAN, VLAN per SSID,	3G/4G/LTE Offload DHCP Relay NMS Monitoring Client APIs Time Synchronization	Supported, with Option-82 customization SNMP v1, v2c, v3 Client Presence/Location API DNS, NAT and TCP Connecting Logging Auto (from controller), NTP Packet Capture, Spectrum Analyzer,

2D Radiation Patterns



ORDERING INFORMATION: cnPILOT OUTDOOR e502S		
Regulatory Model Number:	C000100P502A	
Sales part #	Description	
PL-502SYXXA- <us ca="" eg="" eu="" il="" jp="" lk="" rw=""></us>	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/