cnPilot e501S Outdoor Sector Wi-Fi Access Point IP67 802.11ac 90°~120° Integrated Sector Antenna

Perfect for demanding, high density applications and longer range coverage across large areas, including: industrial or education campuses, enterprise and hospitality complexes, public parks and recreational areas, or just about any demanding outdoor environment requiring cost-effective, controller managed WLAN access points.

THE CNPILOT WI-FI NETWORK HIGHLIGHTS

Operational superiority – The e501S with integrated sector antenna supports 256 client associations, 16 SSIDs, WPA-2 encryption, Dynamic VLANs, DFS channels, Access Control Lists (ACL), and more. The 802.11ac e501S 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 simultaneously.

Wireless Backhaul Integration – the aux PoE port on the e501S offers PoE out, eliminating the need for a second power line perfect for powering on a standard 802.3af camera, or 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 e501S can store two versions of the software – defaulting to a working operational software if needed – reducing the likelihood of site visits and increasing network up-time.

DESIGNED FOR THE OUTDOORS

- 802.11ac, 256 users, 16 SSIDs
- 90°~120° coverage
- 23 dBm front-back ratio
- UV rated IP-67 enclosure
- Operating Temp: -30C ~ +60C
- Electrical heater for cold start
- Ruggedized ESD protection, industrial- grade components
- Packaged with wall & pole mount bracket
- Special LTE coexistence filters
- Light weight ~ 1.3 Kg

cnMAESTRO[™] – WI-FI CONTROLLER

• Guest Access: Custom splash pages, vouchers, social login

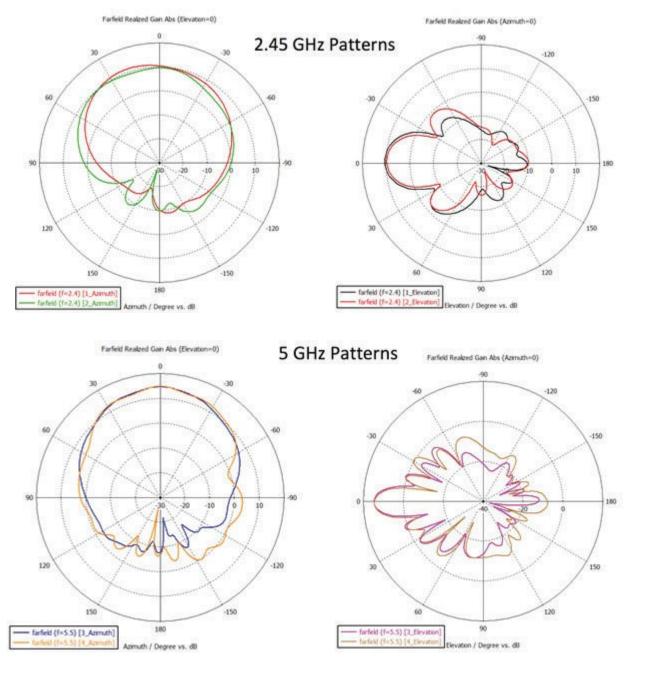
89 F

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

Access Point Spe	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
	2v2:2 MIMO	Dowor Supply	802.3af PoE Injector, or PoE switch.
MIMO, Streams	2x2:2 MIMO	Power Supply	802.3at or PoE+ if using PoE-Out Aux port.
Channel Width		Dimensions	
	20MHz, 40MHz, 80MHz	Dimensions	30 x 20.4 x 6.5 cm (11.8 x 8 x 2.55 Inch)
Concurrent Clients	256 16	Weight	1.3 Kg (2.8 lb)
		Operating Temperature	-30°C to +60°C (-22°F to +140°F)
Antenna	Dual polarized, Omnidirectional, Integrated	Operating Humidity	up to 95% non-condensing
ransmit Power	2.4GHz : 29dBm 5GHz : 28dBm	Power Consumed	13W (max, without PoE-out)
conducted total)			8W (typical)
Antenna Gain	2.4GHz : 10.5dBi 5GHz : 13dBi	Secure Mounting	Kensington Key Slot
Max Data Rate	2.4GHz : 300Mbps 5GHz : 867Mbps	Environment Rating	IP67
ED	Two multi-color software controlled LEDs	MTBF	1,611,174 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 (10/100/1000 Mbps) RJ45 Ports	Reset Button	Supported
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		
Ni-Fi Features			
/lanagement	cnMaestro cloud managed	Wireless Security	WPA-TKIP, WPA2-AES, 802.11i
Aodes	cnMaestro on-premises VM controller managed		WPA-PSK, WPA2-PSK, WPA2-Enterprise
	Autopilot (AP as controller)		802.1x Authentication with various EAP types
	Standalone with AP GUI (http/https), CLI (telnet/ssh)		(EAP-TLS, EAP-TTLS/MSCHAPv2, PEAPv0/EAP-
			MSCHAPv2, PEAPv1/EAP-GTC, EAP-SIM, EAP- AKA, EAP-AKA', EAP-FAST
			Protected Management Frames (802.11w)
F Management	AutoRF automatically manages channel and power	Dynamic SSID Service	By time/date, by monitored host.
	cnMaestro Controller Portal	MAC Authentication	On-AP MAC filtering list.
Guest Access Captive Portal	Integrates with 3 rd party Guest Access Portals	MAC AUTIENTICATION	On-AP MAC Intering list. On-Controller MAC filtering list.
	Built-in Portal on AP		RADIUS MAC Authentication.
	LDAP & RADIUS authentication		
	Walled Garden with DNS whitelist		MAC Authentication fallback to Captive Portal
	Wireless as well as Wired devices supported.		
lata Limiting		Eirowoll	Lavor 2 Lavor 2 DNS ACL DoS Attack Protection
Rate Limiting	Per-client, Per-WLAN static and dynamic rate limiting	Firewall	Layer-2, Layer-3, DNS ACL. DoS Attack Protection
lient Isolation	On AP, Network-wide.	3G/4G/LTE Offload	Passpoint (Hotspot 2.0)
ast 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
AA Support	RADIUS Authentication, Accounting, Dynamic Authorization (CoA, DM). Server failover, load-balancing	Client APIs	Client Presence/Location API DNS, NAT and TCP Connecting Logging
loS	802.11e/WMM QoS. DSCP/ToS mapping.	Time Synchronization	Auto (from controller), NTP
thernet (L2)	802.1p/802.q, RADIUS assigned VLAN, VLAN per SSID,	Troubleshooting Tools	Packet Capture, Spectrum Analyzer,
ervices	VLAN pooling, LLDP, IGMP Snooping (v1/v2/v3)		Ding Treesewayte Curlant
ervices Aesh	VLAN pooling. LLDP. IGMP Snooping (v1/v2/v3) WDS Mesh with Single and Multiple radio hops.	Traffic Tunnels	Ping, Traceroute, Syslogs L2TP, L20GRE, PPPoE

Network Services NAT, DHCP Server

2D GAIN PATTERNS



ORDERING INFORMATION: cnPILOT e501S

Regulatory Model Number (common to all SKUs):

	C000100P501
A Sales part #	Region
PL-E501SYXXA- <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/

© 2019 Cambium Networks Ltd. All rights reserved.