CAMBIUM cn Pilot e501S Outdoor Access Points
Overview

The Cambium Networks XV2-23T Wi-Fi 6 Outdoor Access Point offers a high-performance, cost-effective solution with robust outdoor durability and extended wireless coverage. It supports the latest Wi-Fi 6 standard with dual-radio technology, enabling fast, reliable connectivity for up to 256 users. With flexible cloud or on-premises management and easy installation options, it delivers scalable outdoor Wi-Fi tailored for diverse environments, making it an ideal choice for any organization seeking efficient and resilient wireless outdoor networking.

FIGURE 1: APPEARANCE OF cn Pilot e501S

TABLE 1: QUICK SPECS OF CAMBIUM cn Pilot e501S AP

SKU	PL-501S000A-RW
Description	Outdoor Sector Access Point with integrated gigabit Ethernet and sector antenna
Wifi standard	802.11AC 2x2:2:2
Dimensions	300 mm x 204 mm x 65 mm (11.81 in x 8.03 in x 2.56 in)
Antenna	Internal sector antenna 10.5 dBi (2.4GHz) 13 dBi (5GHz)

FIGURE 2: FRONT PANEL OF CAMBIUM cn Pilot e501S AP

FIGURE 3: BACK PANEL OF CAMBIUM cn Pilot e501S AP

CAMBIUM cn Pilot e501S AP provides these features:

1.802.11ac Wave 1 Dual-Radio Performance

It delivers up to 867 Mbps (5 GHz) and 300 Mbps (2.4 GHz) with 2x2 MIMO, supporting VHT MCS rates, 256-QAM, and HT20/40/80 MHz channels for high-density outdoor connectivity. Enhances throughput with airtime fairness and packet aggregation (AMSDU/AMPDU), ensuring efficient bandwidth utilization. Ideal for demanding applications in warehouses, retail, and campuses, providing reliable, high-speed Wi-Fi. Differentiates in competitive markets with robust performance for bandwidth-intensive environments.

2.120° Sector Antenna with High Isolation

It features an internal sector antenna with 13 dBi (5 GHz) and 10.5 dBi (2.4 GHz) gain, projecting a 120° arc with 23 dBm front-to-back isolation for 180° effective coverage. Optimizes signal focus in high-interference areas, reducing noise and improving connection reliability. Suits targeted outdoor deployments like building exteriors or public hotspots, enhancing market appeal. Minimizes co-channel interference, ensuring consistent performance in dense RF environments.

3.Dual Gigabit Ethernet with PoE Output

This AP is Equipped with two IEEE Gigabit auto-sensing ports, with the second port providing 15.4W PoE output to power devices like IP cameras or fixed wireless modules. Simplifies infrastructure by combining data and power delivery, reducing deployment costs and complexity. Appeals to multi-device outdoor applications in retail, logistics, and security, offering versatile connectivity. Enhances operational efficiency with integrated powering solutions for diverse network setups.

4.IP67-Rated Rugged Design with LTE Filtering

This AP is Built with an IP67-rated, UV-protected enclosure, operating reliably from -30°C to 60°C in 95% RH non-condensing conditions, with LTE Band 38/40 filtering. Ensures durability and interference-free performance in harsh outdoor environments, minimizing maintenance. Targets industrial, municipal, and hospitality markets requiring robust, weather-resistant Wi-Fi solutions. Extends equipment lifespan, reducing total cost of ownership for long-term deployments
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5.Advanced Security and Authentication

This supports WPA2 (802.11i), 802.1x/EAP (SIM/AKA/PEAP/TTLS/TLS), 802.11w PMF, MAC authentication, WIDS, and L2-L7 firewall with DoS protection. Provides enterprise-grade security for secure access in public and private outdoor networks. Appeals to sectors like healthcare and government needing stringent data protection and compliance. Ensures network integrity with robust intrusion detection and prevention capabilities.

SPECIFICATION

Cambium cn Pilot e501S Specification	
MODEL NUMBER	cn Pilot e501S
WIFI STANDARD	802.11AC 2x2:2:2
WEIGHT	881 g (1.94 lbs)
DIMENSIONS (W x H x D)	300 mm x 204 mm x 65 mm (11.81 in x 8.03 in x 2.56 in)
RADIOS	1 x 5 GHz radio (802.11 a/n/ac), 2x2 1 x 2.4 GHz (802.11 b/g/n), 2x2 SU-MIMO: 2 streams
MAX EIRP	36 dBm (2.4GHz) 36 dBm (5GHz)
MAX PHY RATE	2.4 GHz radio: 300 Mbps 5 GHz radio: 867 Mbps
ETHERNET	Two IEEE Gigabit auto sensing
ANTENNA GAIN	Internal sector antenna 10.5 dBi (2.4GHz) 13 dBi (5GHz)
WLAN	256 clients per radio, 32 SSIDs (16 per radio) WPA-TKIP, WPA2 AES, 802.1x, 802.11w PMF
SSID SECURITY	WPA2 (802.11i), WPA2 Enterprise (802.1x/EAP), WPA PSK, Open
OPERATING TEMPERATURE	-30°C to 60°C
STORAGE TEMPERATURE	40°C to 70°C
HUMIDITY	95% RH non-condensing
SECURITY	Kengsington Key Slot
POWER CONSUMPTIONS	802.3af or 802.3at powered device Typical load: 8W, Max: 12.85W 25W when connected to full 802.3af load on GE 2
LED	Two dual-color LED
FILTER LTE BAND	38, 40
MOUNT OPTIONS	Integrated pole 38 mm and 76 mm (1.5 in and 2.99 in), wall mount
CERTIFICATIONS	Wi-Fi Alliance 802.11 a/b/g/n/ac, Passpoint 2.0, FCC, ETSI, CE, EN 60601-1-2, IEC60950, Ul2043

Why Insight Infosys.com

We design and deploy full-stack ICT architectures — from edge to core, on-prem to cloud with a focus on networking, virtualization, cloud services, and cybersecurity services.

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