

Cambium's ONE Network Delivers Complete Access and Security Solutions for Education Campuses

Overview

Cambium Networks effectively addresses the challenges of deploying networks in educational environments through a comprehensive suite of solutions tailored to meet the unique needs of primary/secondary schools and universities. Cambium's ONE Network solution simplifies deployment and onboarding while delivering the enterprise-grade performance to seamlessly connect the diverse range and density of students, staff, guests, and IoT devices on today's education campus networks.

Proven Success

Cambium has a long history of deploying enterprise-grade networks in thousands of school campuses around the world. Our solutions are designed to optimize the learning experience by delivering utility-grade Wi-Fi service that you don't have to think about. As a cloud-first solution, deployment is simplified, and ongoing operation of the network is aided with AI-based tools that reduce troubleshooting times and costs.

Cambium One Network Solution for Education

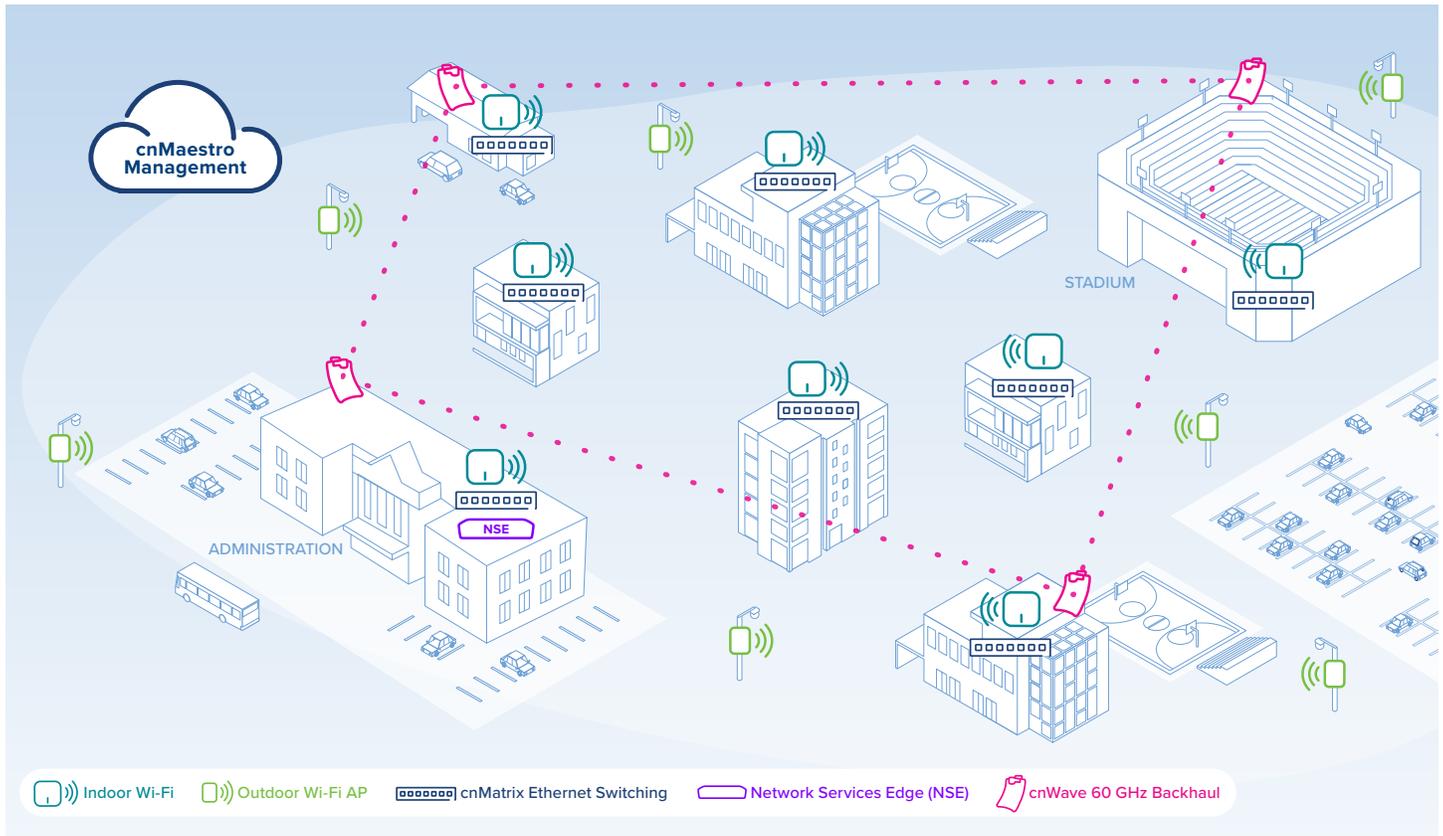
Product	Details
Wi-Fi	Wi-Fi 6, 6E, and 7 indoor and outdoor access points with Auto-RF, IoT, locationing, and high client-density support
Switching	Access and aggregation switches with multi-gig and policy-based automation (PBA)
Fiber	GPON and XGS-PON solutions for high-speed campus backhaul with indoor and outdoor ONT options
SD-WAN and Security	NSE (Network Service Edge) SD-WAN, providing threat protection, vulnerability detection, firewall, VPN, routing, and network services in a single solution
Wireless Backhaul	Multi-gig 60 GHz and point-to-multipoint solutions for Wi-Fi backhaul in building-to-building or site-to-site applications
Management	Single-pane-of-glass management with cnMaestro™ X for the entire Cambium ONE Network, including AI-driven X analytics and EasyPass access services with Google and Azure integration
Support	24x7 support with design, deployment, monitoring, and troubleshooting services by industry experts

WHAT OUR CUSTOMERS SAY

“The challenges of digital learning stretched our legacy networks to their limits. By partnering with Cambium Networks, we significantly boosted the network's capacity and reliability, which has been crucial for supporting our expansive educational goals.”

— Jeremy Ford, Technology Infrastructure Manager,
Wicomico County Public Schools

Cambium's ONE Network Provides a Complete Indoor and Outdoor Campus Network



WHAT OUR CUSTOMERS SAY

“There are currently around 3,000 connected devices on our network. Since digital learning and online collaboration play a key role in the educational initiatives for ISL, we had to ensure our entire school campus was provided with high-quality and secure wireless connections. We are pleased to have Cambium Networks as a reliable partner that meets these requirements and enables an optimal digital experience.”

— Bernd Buchmaier, Head of IT Infrastructure Services,
International School Of Luxembourg

How Cambium Solves Key Challenges in Education Networks

Challenge	Cambium Solution
Reliability and Scalability	Cambium's distributed Wi-Fi architecture eliminates central controller appliances/VMs to simplify network design, improve scalability, and eliminate single point of failures.
Management Flexibility	Cambium's cnMaestro X management offers elastic scalability and cloud-service simplicity to manage the entire network from a single console platform.
High Density and Capacity	Cambium's Wi-Fi APs use multi-radio (up to 5) and software-defined radio (SDR) designs to meet the needs for high-capacity deployments from small classrooms to large lecture halls and sports venues.
Fast and Efficient Troubleshooting	Cambium's cnMaestro X provides AI-driven analytics with Assurance for advanced network troubleshooting and Assists that ensures best practices are followed.
Wi-Fi Performance in Outdoor Spaces	Cambium's outdoor Wi-Fi solutions provide unparalleled range (up to 1 km+) and performance to cover large areas and reduce the amount of equipment required.
Easily Connecting Buildings, Playgrounds, and Outdoor Fields	Cambium's cnWave™ 60 GHz and ePMP™/PMP solutions provide primary connectivity or wired network backup to connect buildings, fields, and playgrounds without disturbing historical structures.
Provisioning the Switch Network	Cambium's PBA and autoVLAN in cnMatrix™ switches enable IT staff to easily provision the L2/L3 switch network out of the box and support ongoing moves/adds/changes.
Simple, Secure Onboarding and Guest Access	EasyPass access services streamline staff, student, visitor, and IoT device onboarding with convenient options, including Google and Azure integration, social login, guest ambassador, and SMS authentication.
Seamless Global Roaming	Cambium's solutions support eduroam , which allows visitors to access the network using home institution credentials at no extra cost.
Application Visibility and Control	Cambium's solutions provide visibility into 2,400+ applications to identify high-usage apps, together with policy control, to enable application-based prioritization, traffic shaping, and blocking.
Easy Screencasting and Streaming	Cambium supports protocols, including mDNS & SSDP , to enable seamless device discovery and streaming across multiple platforms like Apple Mac/iOS, Windows, ChromeOS, and specialized streaming solutions for education.
Scale Network for Chromebooks	Cambium's client isolation prevents excessive multicast traffic from Chromebooks from hitting the network, enhancing overall network quality and user experience.
Optimize Cost and Performance with Fiber	Cambium's Fiber XGS-PON/GPON solution delivers homogeneous network experiences at a low total cost of ownership (TCO) in the same cnMaestro X management platform as Wi-Fi, switching, and security.



About Cambium Networks

Cambium Networks enables service providers, enterprises, industrial organizations, and governments to deliver exceptional digital experiences and device connectivity with compelling economics. Our ONE Network platform simplifies management of Cambium Networks' wired and wireless broadband and network edge technologies. Our customers can focus more resources on managing their business rather than the network. We make connectivity that just works.