



# Kings Langley School Revolutionizes Connectivity



Kings Langley School, located in Hertfordshire, UK, is a leading educational institution serving 1,200 students and 200 staff. Known for its commitment to technology-driven learning, the school faced critical challenges in delivering consistent, high-speed connectivity to meet its growing digital needs.





## The Challenge

The school's existing wireless network, built on an outdated Ruckus system, failed to accommodate the evolving demands of modern education. Frequent connectivity blackspots disrupted classroom activities, while the inability to integrate Azure AD and Single Sign-On hindered administrative efficiency. High traffic areas, particularly during events, revealed severe performance gaps. With increasing reliance on devices like laptops, tablets, and interactive teaching tools, Kings Langley needed a reliable, scalable network to support its vision for a tech-enhanced curriculum.

## The Results:

Partnering with Aastha Ltd, Kings Langley adopted a comprehensive, future-proofed Wi-Fi 6 solution. The deployment included:

- XV2-2 Access Points: Reliable, cost-effective indoor and outdoor coverage with robust throughput.
- XV3-8 Tri-Radio Wi-Fi 6 Access Points: High-capacity access points tailored for high-traffic areas such as the Sixth Form facility, delivering tri-radio capabilities for seamless connectivity in demanding environments
- XV2-2T1 External Access Points: Deployed to provide outdoor coverage, particularly useful for PE and sports education. The enhanced outdoor Wi-Fi has been instrumental for PE teachers, who no longer need to re-enter the building to synchronize student performance statistics on their tablets.
- cnMaestro™ X: A 5-year subscription to this advanced cloud-based management platform further enhances their network's support and feature set, ensuring centralized monitoring and streamlined troubleshooting.

This solution ensures compliance with Department for Education standards and delivers advanced Wi-Fi 6 capabilities. By replacing the older system with a purpose-built solution, the school can now meet the performance and density requirements needed.

## Technology Solution

The implementation process was smooth, beginning with a detailed site survey and followed by efficient installation and testing. A combination of XV2-2, XV2-2T1, and XV3-8 access points eliminated connectivity blackspots and improved overall network reliability. Students and staff reported a dramatic reduction in disruptions, enabling uninterrupted learning experiences.

- over 50% increase in connection speeds and exponentially improved throughput.
- A significant drop in Wi-Fi complaints, reflecting improved user satisfaction.
- Enhanced capacity to support bandwidth-heavy applications like video streaming and collaborative tools such as Microsoft Teams and SharePoint.

**The solution has transformed** *our campus connectivity. The network is faster, more reliable, and easily scalable—giving our students and staff the tech environment they need to succeed.*

— Daniel Brookes, ICT Strategic Lead, Kings Langley School.

## Business Value

The new network has empowered Kings Langley to deliver exceptional digital experiences for its students and staff. Reliable high-speed Wi-Fi enables smooth operation of online learning platforms, file-sharing, and interactive classroom tools. The scalable infrastructure is poised to handle future technological advancements, ensuring long-term ROI.

Moreover, the centralized management via cnMaestro™ X has lightened the IT team's workload, enabled remote monitoring and troubleshooting with minimal onsite intervention



## 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.