ERICSSON

How 5G and LTE solutions transform education

K-12 education today is more connected than ever before. Forward-thinking school districts increasingly turn to cellular as a primary or secondary internet source. 5G and LTE Wireless WAN solutions support the growing use of educational apps, distance learning, and hybrid learning environments—whether students are in the classroom, at the gym, or on the bus. These secure, scalable networks ensure students and staff can safely access critical information, empowering academic success while maintaining compliance with the Child Internet Protection Act (CIPA).

School bus Wi-Fi

Remotely managed cellular routers perform better than hotspots to deliver secure, high-performing connectivity for school bus Wi-Fi. School districts can use federal E-Rate funding to purchase cellular routers that support on-board learning and improve safety.

Temporary classrooms and portables

Deploying cellular routers makes it simple to set up secure day-1 connectivity for temporary sites or portable classrooms away from main buildings, without having to wait for wired connections, saving time and money.

Special events and arenas

Using cellular as the primary WAN link, pop-up networks can immediately provide secure, reliable connections for applications such as point-of-sale during events, especially where wired connectivity would be too expensive or provide spotty coverage.

Physical security

Schools utilize sensors, cameras, and other IoT devices connected to failover-ready cellular networks to monitor school grounds, control entry points, and support push-to-talk channels for security.

Failover and Out-of-Band Management (OOBM)

Cellular routers provide critical backup for digital signs, HVAC, public Wi-Fi, and applications, creating 24/7 uptime even if the primary network fails. OOBM allows IT staff to access and manage devices remotely, independent of the primary network.

Network optimization

SD-WAN solutions combine wired and wireless WAN links for seamless failover to keep staff and students online. Data integrity and application priority ensure quality of critical applications through link bonding.

Learn more at cradlepoint.com

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