From legacy to 100G: modern campus networking upgrade in Bangkok

One of Thailand's most prestigious university-affiliated secondary schools recently completed a major network upgrade in its 17-story academic building — replacing a legacy infrastructure that could no longer keep up with daily demand.

The new design delivers **10–100 Gbps core connectivity** for LAN, VoIP, access points, and CCTV systems — reliably serving **2,000+ users every day**. The entire network, from **core to access**, is built on MikroTik routing and switching, ensuring performance, redundancy, and future scalability while remaining cost-efficient.

"We needed a network that could scale to thousands of daily users — without enterprise-level costs."

The project was implemented by MikroTik partners **NeXTGENiT, SIMAT,** and **G-Net**, featuring hardware Layer 3 offloading, link aggregation, and high availability at both hardware and software levels.

Deployed MikroTik devices include:

*   CCR2216-1G-12XS-2XQ
*   CRS520-4XS-16XQ-RM
*   CRS518-16XS-2XQ-RM
*   CRS504-4XQ-IN
*   CRS326-24S+2Q+RM
*   CRS312-4C+8XG-RM
*   CRS354-48P-4S+2Q+RM
*   CRS328-24P-4S+RM

The distributor has shared the network topology diagrams, you can find them <u>HERE</u>.