



Education Networking Solutions for Connected Campuses

Empowering Learning Through Reliable, High-Performance Connectivity

BUILDING THE FUTURE OF CONNECTED LEARNING

Educational institutions rely on fast, dependable networks to support high-density device environments, digital learning, lecture streaming, and research-driven workloads—often across complex, multi-building campuses with limited fiber resources. At the same time, IT teams must manage rising bandwidth demands, tighter security requirements, and constrained budgets while supporting faculty, students, and staff without disruption.

As digital needs continue to grow, schools require networking solutions that deliver:

- **Flexible Scalability** – Adapt quickly to rising bandwidth demands, high device density, and research-driven traffic without overbuilding fiber.
- **Consistent Performance** – Reduce downtime and improve user experience across classrooms, labs, and remote environments.
- **Future-Proof Investment** – Simplify management and ensure broad interoperability that protects technology investments and reduces long-term costs as needs evolve.

WHY EDUCATIONAL INSTITUTIONS CHOOSE APPROVED NETWORKS

Approved Networks, a brand of Legrand, delivers high-performance optical networking solutions trusted by schools and universities to scale bandwidth and simplify inter-building connectivity—at a fraction of OEM cost.

Schools and universities benefit from solutions that deliver:

- **Network Dependability** – Infrastructures designed to support increasing bandwidth demands and mission-critical academic and administrative workloads.
- **Adaptability for Growth** – Future-ready designs that extend infrastructure life and maximize long-term value as your institution expands.
- **Engineering Expertise** – Backed by Legrand, Approved Networks invests heavily in R&D to continuously advance fiber-optic technologies to keep your network ahead of evolving demands.

Popular Products



100G Transceivers



40G Transceivers



10G BiDi Transceivers



Passive WDM Filters



Budget-Friendly Solutions



Tailored Solutions



Expert Technical Support



Multi-OEM Compatibility

CAMPUS NETWORK ARCHITECTURE OVERVIEW

Educational networks must support a wide range of bandwidth-intensive applications, and need an infrastructure that delivers consistent performance, reliability, and scalability across every building and user environment. Approved Networks solutions impact every layer of the campus topology, whether connecting remote administrative buildings or upgrading data center storage with high-speed interconnects.

Stable Wi-Fi, optimizes user experience

- Support uninterrupted connectivity
- Guarantee user bandwidth

Smart campus using IoT

- Environmental monitoring data collection
- Laboratory equipment positioning and maintenance

High-density applications

- Support for 100+ devices simultaneously
- Web authentication

Flexibility

- Simplified network management and deployment
- Adaptive infrastructure built to scale with technology and software requirements

Security

- VLAN network segmentation and security
- Support rogue AP detection

Surveillance

- Essential bandwidth for video transmission
- Support perimeter alarms and intrusion detection
- Integrate with campus security system

RECOMMENDED FIBER OPTICS FOR NETWORK INFRASTRUCTURE

We offer a comprehensive portfolio of transceivers, high-speed cables, and passives—optimized for bandwidth growth, long-distance reach, and fiber-efficient inter-building deployments.

Fiber Optic	Max Distance	Typical Use
1G SFP Transceiver	550m (MMF)	Access switches in classrooms, wireless access points, AV systems, faculty offices
10G SFP+ Transceiver	300m (MMF)	Short-reach distribution links within classroom buildings, libraries, labs, admin facilities
10G LR SFP+ Transceiver	10km (SMF)	Building interconnects for dorms, sports complexes, parking, satellite buildings
40G QSFP+ Transceiver	10km (SMF)	Core routers/switches for high-bandwidth campus links
100G SR4 QSFP28 Transceiver	100m (MMF)	Data center core, virtualization clusters, and storage
100G CWDM QSFP28 Transceiver	2km (SMF)	Campus backbone and inter-building connections including security and surveillance
10G SFP+ BiDi Transceiver	20km (SMF)	Building interconnects for dorms, classrooms, admin offices, and data centers across a wide campus
10G DWDM	80km (SMF)	High-capacity inter-building and campus links
10G DAC Cable	10m (Twinaxial)	In-rack, short connections in labs and data centers

EMPOWER YOUR NETWORK WITH HIGH-SPEED CONNECTIVITY

Contact our experts to design and deploy a scalable, fiber-efficient network infrastructure.