



Data Center Networking Solutions for Connected Infrastructures

Delivering Reliable Performance Through High-Density, High-Speed Connectivity

BUILDING THE FUTURE OF CONNECTED DIGITAL DATA

Modern data centers power cloud services, AI workloads, enterprise applications, and real-time analytics. As traffic volumes and compute demands increase, IT teams must manage escalating bandwidth demands, multi-vendor interoperability, and constrained budgets—while keeping uptime commitments and supporting business-critical workloads.

As infrastructure demands continue to evolve, data center environments require networking solutions that deliver:

- **Flexible Scalability** - Adapt quickly to rising port speeds, high-density deployments, and evolving traffic patterns without costly over-provisioning.
- **Consistent Performance** - Reduce downtime and maintain throughput across top-of-rack, spine, and leaf layers from 10GB to 800GB.
- **Future-Proof Investment** - Simplify management and ensure broad interoperability that protects technology investments and reduces long-term costs as needs evolve.

WHY DATA CENTERS CHOOSE APPROVED NETWORKS

Approved Networks, a brand of Legrand, delivers high-performance optical networking solutions trusted by hyperscale, enterprise, and cloud data centers to scale bandwidth and simplify connectivity—at a fraction of OEM cost.

Data centers benefit from solutions that deliver:

- **Network Dependability** - Infrastructure designed to support increasing bandwidth demands and mission-critical compute and storage workloads.
- **Adaptability for Growth** - Future-ready fiber optics that extend infrastructure lifespan and maximize long-term value as your data center scales.
- **Engineering Expertise** - Backed by Legrand, Approved Networks invests heavily in R&D to continuously advance fiber-optic technologies to keep data center networks ahead of evolving data demands.

Popular Products



800G Transceivers



400G Transceivers



100G Transceivers



Passive WDM Filters



Multi-OEM Compatibility



Tailored Solutions



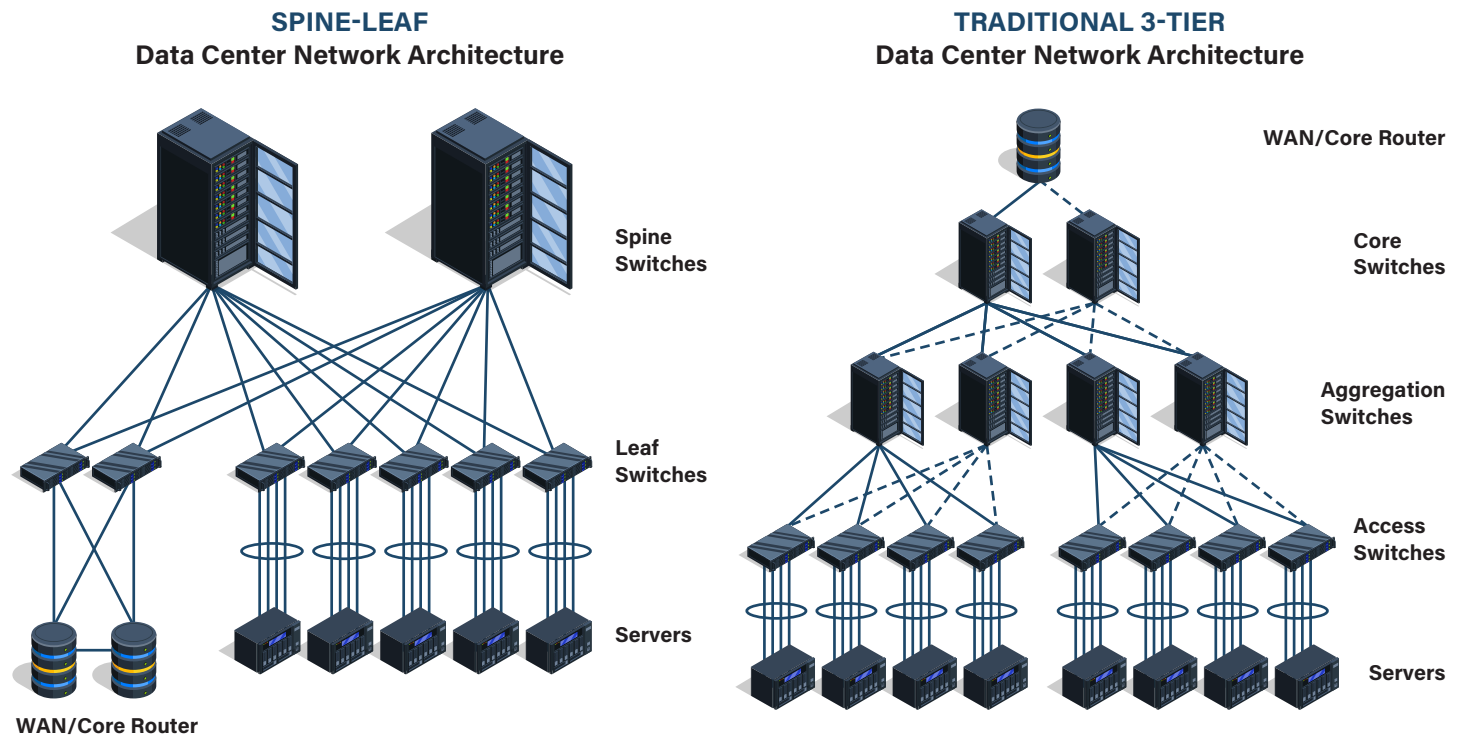
Expert Technical Support



Budget-Friendly Solutions

DATA CENTER NETWORK ARCHITECTURE OVERVIEW

Data center networks must support a wide range of bandwidth-intensive workloads, requiring an infrastructure that delivers consistent performance, reliability, and scalability at every tier. Approved Networks solutions impact every layer of the data center topology, whether connecting servers within a rack, linking top-of-rack (ToR) switches to spine layers, or extending connectivity between data centers.



RECOMMENDED FIBER OPTICS FOR NETWORK INFRASTRUCTURE

Approved Networks offers a comprehensive portfolio of transceivers, high-speed cables, and passives—optimized for ultra-low-latency, high-density, and scalable data center environments.

Fiber Optic	Max Distance	Typical Use
10G SFP+ Transceiver	10km (SMF)	Server access, storage arrays, management networks
25G SFP28 Transceiver	10km (SMF)	Server-to-ToR connectivity, high-density server connections
100GB QSFP28 CWDM4 Transceiver	2km (SMF)	Campus and inter-building data center connections
100G QSFP28 ZR4 Transceiver	80km (SMF)	Long-distance data center interconnect (DCI)
400G QSFP-DD Transceiver	2km (SMF)	Hyperscale spine-leaf AI/ML cluster interconnects
400G QSFP-DD ZR/ZR+ Transceiver	600km (SMF)	Coherent DCI for metro and regional interconnects
800G OSFP DR8 Transceiver	10km (SMF)	Next-gen AI fabric, ultra-high-density spine layers
400G AOC Cable	100m (MMF)	Hyperscale spine-leaf switch connectivity
400G DAC Cable	3m (Twinaxial)	Hyperscale spine-leaf AI switch interconnects

POWER YOUR DATA CENTER WITH ALWAYS-ON CONNECTIVITY

Contact our experts to design and deploy a scalable, high-performance network infrastructure.

ApprovedNetworks.com

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