

### ENABLING NEXT-GENERATION FINANCIAL NETWORKS

Financial institutions rely on fast, dependable networks to power real-time transactions, algorithmic trading, core banking systems, and cloud-connected services—often across globally distributed environments with strict uptime and compliance requirements. At the same time, network operators must manage escalating data volumes, cybersecurity threats, evolving regulatory mandates, and budget constraints, all while scaling infrastructure without service disruption.

As data demands continue to grow, financial institutions require networking solutions that deliver:

- **Ultra-Low Latency** - Minimize transaction processing delays to support high-frequency trading, real-time payments, and time-sensitive market data feeds.
- **Consistent Performance** - Reduce downtime and maintain reliable throughput across trading platforms, data centers, and branch office connections.
- **Future-Proof Investment** - Simplify network growth and management, ensure multi-vendor interoperability, and reduce long-term costs as regulatory and technology requirements evolve.

### WHY FINANCIAL INSTITUTIONS CHOOSE APPROVED NETWORKS

Approved Networks, a brand of Legrand, delivers high-performance optical networking solutions trusted by financial institutions to scale bandwidth and secure data transmission—at a fraction of OEM cost.

Financial institutions benefit from solutions that deliver:

- **Network Dependability** - Infrastructure designed for always-on service delivery, mission-critical transaction workloads, and zero-tolerance uptime environments.
- **Adaptability for Growth** - Future-ready fiber optics that support network expansion, increasing data volumes, and the growth of AI-driven analytics traffic.
- **Engineering Expertise** - Backed by Legrand, Approved Networks invests heavily in R&D to continuously advance fiber-optic technologies, helping financial networks stay ahead of evolving data and compliance demands.



Multi-OEM Compatibility



Tailored Solutions



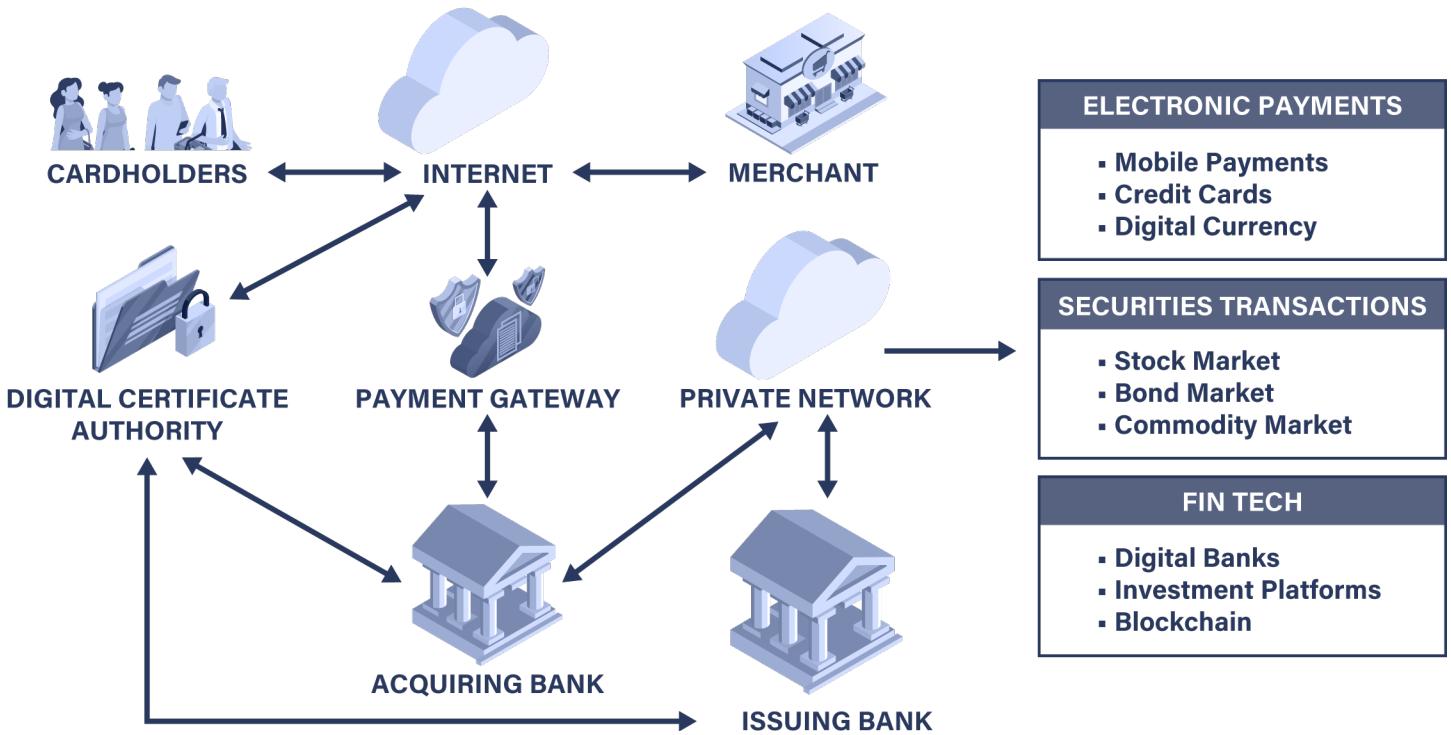
Expert Technical Support



Budget-Friendly Solutions

## FINANCIAL NETWORK ARCHITECTURE OVERVIEW

Financial networks must support latency-sensitive, high-availability workloads, requiring an infrastructure that delivers security, reliability, and scalability at every layer. Approved Networks solutions impact every layer of the financial network topology, whether connecting front-office trading systems and back-office settlement platforms or extending secure connectivity between co-location facilities and regional offices.



## RECOMMENDED FIBER OPTICS FOR NETWORK INFRASTRUCTURE

Approved Networks offers a comprehensive portfolio of transceivers, high-speed cables, and passives—optimized for ultra-low latency, secure data transmission, and scalable financial network deployments.

Fiber Optic	Max Distance	Typical Use
10G SFP+ LR Transceiver	70km (SMF)	Secure connectivity to remote branches, ATMs, and out-of-band management networks
40G QSFP+ LR4 Transceiver	10km (SMF)	Aggregation links between trading floor switches and core data center networks
100GB QSFP28 SR4 Transceiver	100m (MMF)	High-speed intra-data center links between compute, storage, and risk analytics clusters
100G QSFP28 LR Transceiver	10km (SMF)	Metro interconnects between primary data centers, co-location sites, and disaster recovery facilities
400G QSFP-DD FR4 Transceiver	2km (SMF)	High-capacity data center interconnects for market data distribution and real-time transaction processing
800G OSFP SR8 Transceiver	100m (MMF)	Ultra-high-bandwidth switching within core financial data centers and trading platform fabrics
800G OSFP DR8 Transceiver	10km (SMF)	Backbone links between geographically separated trading and clearing facilities
400G DAC Cable	3m (Twinaxial)	Ultra-low-latency, short-reach rack-level switch and server connectivity

## POWER YOUR FINANCIAL NETWORKS WITH SECURE, HIGH-SPEED CONNECTIVITY

Contact our experts to design and deploy a low-latency, secure network infrastructure.

ApprovedNetworks.com

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