



Modern E-Commerce Networks

Secure, Scalable, AI-Ready

Future-proof your e-commerce network with SONiC-based fabrics, multi-vendor orchestration, and end-to-end visibility. Scale instantly, cut costs, and deliver seamless digital experiences from data centers to PoPs.



Networks That Keep E-Commerce Moving

E-commerce IT teams face growing complexity as AI-driven personalization and AR experiences drive surging traffic:

- **Peak-Day Traffic Surges & AI Workloads:** AI-driven recommendations, dynamic pricing, and AR experiences create high-volume, real-time traffic spikes during flash sales and seasonal peaks, straining legacy networks.
- **Compliance & Data Security:** PII, payment data, and user-generated content require continuous visibility and protection.
- **Always-On Expectations:** Downtime Leads to Abandoned Carts and Lost Revenue.
- **Distributed Operations:** Global PoPs, warehouses, and fulfillment centers stretch small IT teams.
- **Fragmented Tools:** Disconnected monitoring slows troubleshooting and rollout of new services.

The result: Bottlenecks, slow rollouts, higher costs, and reduced agility.

How Aviz Helps

Aviz delivers secure, scalable, AI-ready networks built on SONiC fabrics, multi-vendor orchestration, and edge visibility:

Future-Ready SONiC Fabrics

Open, vendor-neutral SONiC networks provide scalable data center and PoP fabrics, powering AI workloads, AR experiences, and high-traffic services without requiring forklift upgrades.

End-to-End Observability with Aviz

PacketBroker + Service Nodes

Deep packet-level visibility across data centers, warehouses, and edge PoPs. Enables compliance reporting, actionable insights, and feeds security tools (NDR/IDS) for improved threat posture.

Unified Orchestration with ONES + FTAS

ONES manages SONiC-based devices from multiple vendors (Dell, Celestica, Edgecore, Spectrum-X). FTAS automates testing, validation, and rollout, ensuring new devices and updates deploy reliably and quickly.

Network Copilot™ for E-Commerce

AI assistant integrates SONiC telemetry, logs from edge devices (SD-WAN, firewalls, WAFs), and Aviz connectors. Automates troubleshooting, detects anomalies, enforces compliance, and reduces MTTR — all on-prem.



The Aviz Advantage

Standardized, Multi-Vendor SONiC Fabric

- Scale from 10G to 400G without forklift upgrades.
- Multi-vendor support ensures faster rollouts, hardware reuse, and lower TCO.

Deep Observability with OPB + Service Nodes

- End-to-end visibility for performance, compliance, and lateral threat monitoring across Global PoPs, warehouses, and fulfillment centers

AI-Driven Operations with Network Copilot™

- Natural language troubleshooting across SONiC and edge devices.
- Automates routine tasks, reduces MTTR, and enforces compliance.

ONES + FTAS

- Unified orchestration for SONiC-based devices.
- Automated testing and validation for faster, safer deployments.

Proven Results in E-Commerce

A global e-commerce platform rebuilt its network with Aviz:

- Up to 60% TCO savings through software-first, multi-vendor architecture
- Full real-time visibility across data centers, warehouses, and PoPs
- Faster troubleshooting and rollouts with AI-assisted root-cause correlation
- Agile, always-on operations without vendor lock-in

Achieve More with Aviz

Save More (Financial Benefits)

- Lower OPEX & CAPEX via multi-vendor SONiC fabrics
- Reduce downtime and abandoned carts
- Cut audit and compliance reporting costs
- Optimize bandwidth for media-rich and AI workloads

Achieve More (Strategic Benefits)

- AI-powered personalization without infrastructure limits
- Scale traffic peaks instantly without forklift upgrades
- Full visibility across PoPs, warehouses, and the edge.
- Faster deployment of new features and global rollouts