

DATA SHEET

3942

Service Delivery Switch



Ciena's 3942 Service Delivery Switch is a compact, high-density packet switch that delivers low TCO in metro networks that require cost-effective copper interfaces for MDU/MTU deployments.

The 3942 is optimized for compact, dense metro access and delivery of Ethernet services in MDU/MTU environments, including a growing number of MEF-defined Ethernet business services (E-Line, E-LAN, E-Tree, E-Access).

It supports 4 10GE/1GE multi-rate SFP/SFP+ ports and 20 10/100/1000 Base-TX copper ports. Its form factor complements Ciena's 5142 and 5160 Service Aggregation Switches, enabling optimization of gigabit aggregation costs and density to suit the needs of primarily copper environments.

The 3942 is based on the Service-Aware Operating System (SAOS) used in all Ciena packet switches, providing operational efficiency and consistent system attributes. SAOS delivers benefits across all Ethernet access and aggregation applications, including:

- Rapid implementation of the latest advances in Ethernet technologies, as well as new services and standards proposed by the IEEE, IETF, MEF, and ITU
- Improved efficiency and cost savings resulting from a common deployment and service provisioning model
- Service-offering ubiquity, permitting rapid rollout of new services across the entire network
- MEF CE 2.0-compliant Ethernet service offerings for E-Line, E-LAN, E-Tree, and E-Access port-based and VLAN based variants

Features and Benefits

- Is a cost-effective solution for MDU/MTU deployments where copper infrastructure is deployed in building risers and distribution closets
- Features dense, low-footprint GE aggregation in a non-blocking, wire-speed architecture with 20 10/100/1000Base-TX ports and 4 1GbE/10GbE multi-rate SFP+ ports
- Offers dual AC or DC power in a high-availability, 1RU package
- Supports zero-touch provisioning to minimize OPEX and accelerate service turn-up while providing a service 'birth certificate' with built-in service activation testing
- Complies with MEF CE2.0 specifications for E-Line, E-LAN, E-Tree, and E-Access services
- Incorporates flexible transport options, including G.8032 rings, 802.1q VLANs, 802.1ad Provider VLANs (Q-in-Q), IP/MPLS, and MPLS-TP
- Includes on-board performance benchmark testing capabilities for end-to-end SLA verification
- Employs hardware-assisted OAM capabilities for performance and fault management
- Works in concert with Ciena's OneControl Unified Management System