

DATA SHEET

5150

Service Aggregation Switch



Ciena's 5150 Service Aggregation Switch is a high-density Ethernet aggregation switch that addresses the scalability and cost of the metro network to enable profitable delivery of a wide range of Ethernet services, including:

- Business connectivity services (E-Line, E-LAN and E-tree)
- Layer 2 access to IP services
- Mobile backhaul services
- Consumer and enterprise triple-play backhaul services
- Public sector network services, such as utility smart grids and private healthcare networks

The 5150 features industry-leading switching capacity and port density in a compact 2RU form factor. It supports up to four 10GbE (optional) and 48 GbE ports with redundant power supply modules.

The 5150 is based on Ciena's field-proven packet networking technology, deployed globally by leading carriers and network operators. The 5150 software architecture is based on Ciena's service-aware operating system, which is used in all Ciena Service Delivery and Service Aggregation Switches to provide operational efficiency and consistent system and service attributes.

Ciena's service-aware operating system leads the industry in Carrier Ethernet Operations, Administration, and Maintenance (OAM) mechanisms, ensuring high-reliability service rollout and lowered Operating Expenses (OPEX). With this advanced service visibility and manageability, operators can offer differentiated Service Level Agreements (SLAs)

Features & Benefits

- High-capacity switch fabric enabling 1G to 10G Ethernet aggregation to maximize network efficiency
- Supports 48 100M/GbE UNI ports with SFP connectors and up to 4 10GbE XFP ports, through 2 option module slots each providing 2 10GbE ports
- Supports diverse network topologies and flexible encapsulation techniques ensuring optimal network design and end-to-end service alignment
- Provides advanced Ethernet QoS features enabling service differentiation and extensive OAM capabilities for guaranteed SLAs
- Advanced network and service synchronization via IEEE 1588v2 Precision Time Protocol and ITU-T G.8262 Synchronous Ethernet
- Offers high-density Ethernet aggregation in a 2RU ETSI form factor with dual DC or AC power supply modules for enhanced reliability
- Extends the reach of Ethernet networks through a -40°C to +65°C operating range, enabling universal deployability