

## DATA SHEET

# 3930

## Service Delivery Switch



Ciena's 3930 Service Delivery Switch is an advanced packet networking system focused on the transition to high-bandwidth applications requiring sophisticated Quality of Service (QoS) capabilities, including mobile backhaul and Ethernet business services.

The 3930 incorporates a complete Operations, Administration, and Maintenance (OAM) suite to support the network and service performance monitoring requirements of large-scale Ethernet deployments, while reducing network operating costs.

The 3930 software architecture is based on the Service-Aware Operating System (SAOS) used in all Ciena service delivery and service aggregation switches to provide advanced Carrier Ethernet services with consistent system and service attributes to improve operational efficiency. The 3930 leverages the SAOS to deliver Ethernet services cost-effectively with the ability to stay ahead of bandwidth demands, protecting the operator's investment. The feature capabilities address the widely varying demands of end-customers and a multitude of deployment scenarios.

The 3930 exemplifies Ciena's focus on OAM and the Total Cost of Operations (TCO) to deliver Carrier Ethernet services by supporting all the leading OAM standards and expanding OAM capabilities, including Y.1564 and RFC 2544 Performance Benchmarking generation and reflection capabilities. This broad service support enables detailed Service Level Agreement (SLA)-conformance testing from the Network Operations Center (NOC) and dramatically lowers OPEX. In combination with the low-touch deployment methods provided by Ciena, operators can achieve a very profitable business case, even in highly competitive markets.

The 3930 features a high-capacity switching fabric, two NNI SFP+ ports that support 1GbE or 10GbE, 4 100/1000M SFP UNI ports, and 4 dual-mode UNI ports (10/100/1000 RJ-45 and 100/1000 SFP). The 3930 provides a temperature-hardened

### Features and Benefits

- Provides advanced Carrier Ethernet and low TCO, powered by Ciena's SAOS
- Supports 2 1GbE/10GbE NNI ports to deliver exceptional capacity for bandwidth-hungry applications
- Supports 8 GbE UNI ports including 4 100/1000Base-X Small Form-factor Pluggable (SFP) ports and 4 dual-mode ports: RJ-45 10/100/1000 Base-TX and 100/1000Base-X SFPs
- Incorporates on-board Y.1564 and RFC 2544 Performance Benchmark testing capabilities, enabling end-to-end SLA verification without a truck roll
- Includes environmentally hardened electronics (-40°C to +65°C) and external alarm inputs, providing flexible deployment options
- Provides advanced synchronization support
  - ITU-T G.8262 SyncE on all Ethernet ports
  - IEEE 1588v2 Precision Time Protocol including Ordinary and Boundary Clock for frequency, phase and time distribution\*
  - Stratum 3E oscillator provides exceptional stability as synchronization master or slave
  - Dedicated ports for frequency, phase and time
- Metro Ethernet Forum (MEF) Carrier Ethernet (CE) 2.0-compliant for E-Line, E-LAN, E-Tree and E-Access