



# OPTICAL SUPERVISORY CHANNEL MODULE

For the 4200 Family

## Features and Benefits

- Extends OSC connectivity to nodes that have no other means of OSC connection
- Provides an out-of-band management channel for complete separation of management traffic from customer data
- Features an integrated system controller function that provides network management connectivity, performance monitoring, system maintenance and diagnostics, alarm reporting, and provisioning
- Includes integrated monitoring ports for non-intrusive monitoring of optical signal
- Fits in any full width slot

Ciena's Optical Supervisory Channel (OSC) module enhances the optical layer functionality of the 4200 with out-of-band signaling and a communications and control channel—completely separating the management function from customer data.

The OSC module offers connectivity to 4200 nodes that have no other means of connecting to the OSC network. Built around a dedicated 1510 nm laser and receiver, the OSC provides an out-of-band, full-duplex communications channel for remote node management, monitoring and control similar to the Data Communications Channel (DCC) of SONET/SDH and the General Communications Channel (GCC) of OTN. The OSC optically segregates network management and control from user data, so even if the OSC is lost, data forwarding continues uninterrupted.

Equipped with its own 1510 nm MUX/ DEMUX filter, the OSC travels the same fiber as the DWDM stream and always terminates on neighboring nodes. Because it has a dedicated wavelength, the OSC data is entirely independent of the user data.

