

## DATA SHEET

# eMOTR MODULES

For the 6500 Packet-Optical Platform

Full Integration of Packet Switching and Transport.  
The Ethernet-enabled Muxponder (eMOTR) modules integrate Ethernet service aggregation and switching with optical transport functions in one high-density, compact package.

Leveraging Ciena's field-proven, full-featured Service-Aware OS (SAOS) packet software, eMOTR helps operators scale to swiftly and cost-effectively manage the surging demand for Ethernet service connectivity from the network access to the metro core, using a cohesive converged packet-optical approach that yields substantial savings in equipment and operating costs.

### Product Description

The eMOTR modules specialize in packet switching within the market-leading 6500 Packet-Optical Platform. The eMOTR modules leverage Ciena's SAOS, which is available across the company's Packet Networking portfolio and deployed on more than 710,000 platforms worldwide. The common technology implementation shared across different devices allows for rich functionality implementation and maximum operational efficiencies through equipment interoperability. Additionally, the eMOTR modules offer MEF (Metro Ethernet Forum) Carrier Ethernet (CE) 2.0-certified services.

The eMOTR modules are high-density, packet-enabled muxponders (up to 152 Gb/s per module) and complement the 6500's central packet and Optical Transport Network (OTN) fabric capability to address lower-density bandwidth requirements. Deployment does not require a central fabric and the modules operate flexibly in all 6500 D-Series and S-Series shelf configurations (6500-D2, -D7, -D14, -S8, -S14, -S32) to meet site-specific capacity, footprint, and power requirements.



### Features and Benefits

- Features integrated packet switching and transport in one cost-optimized, highly integrated package
- Leverages 10G and 40G/100G coherent infrastructure with OTN port mapping for enhanced performance and fault detection
- Provides scalable 2-slot to 32-slot chassis-based solution with full redundancy of all components, including card protection
- Offers wire-rate switching on all ports irrespective of packet size and presence of multicast traffic
- Supports MEF CE 2.0 certified services
- Provides broad service stratification and robust bandwidth allocation for guaranteed SLAs via MEF CE 2.0 hierarchical Quality of Service (QoS) capabilities
- Expands the reach of the access network with a compact extended temperature solution optimized for GE and sub-GE services