



EM6 ENHANCED MULTISERVICE MODULE

For the 4200® Family

Features and Benefits

- Uses FlexiPort technology for inherited flexibility, enabling quick port re-programming as protocol requirements change
- Offers additional service mix on a per-port basis: GbE, OTU-1, FC100/FC200, HD-SDI, SD-SDI and DVB-ASI
- Provides an innovative processing capability to support video transport with minimal jitter and maximum clock offset tolerance
- Supports multiple services on the same hardware, providing service flexibility while reducing spares and associated change management expenses
- Features a self-contained service module with built-in system controller function
- Provides single proprietary video SFP uniquely designed for Transmit only, Receive only or Bi-directional video traffic

These EM6 extensions include:

- Ports capable of operating up to 5 Gb/s with initial support for Gigabit Ethernet (GbE) and OTU-1 signal rates
- The addition of per-port memory to support flow control and network distance extension with additional support for future VCAT applications
- Adjacent port interconnection for future SONET/SDH line protection and dual-link video services

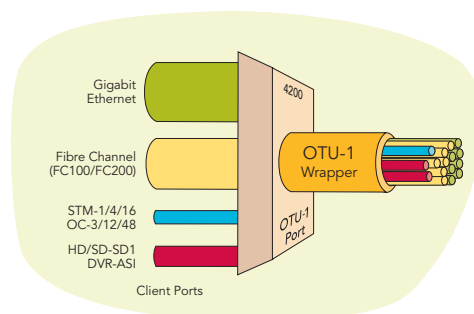


Figure 1. FlexiPort service aggregation and multiplexing

Powered by cutting edge functionality in the EM6, the cutting-edge 4200-based video transport solution supports all SD-SDI, HD-SDI and DVB-ASI video formats with automatic

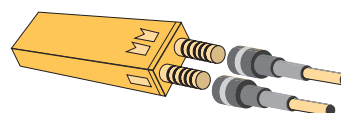


Figure 2. Video SFP

video format recognition. In addition, the 4200 video Small Form-factor Pluggable (SFP), shown in Figure 2, conforms to Ciena's flexible product philosophy, using one SFP to support the entire set of video formats—significantly reducing customer inventory costs.

This video SFP provides independent connectivity of transmit and receive video signals, allowing users to maximize port flexibility and capacity with support for up to 12 independent video signals per EM6 module.

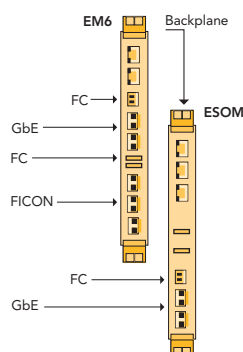


Figure 3. ESOM and EM6 interworking