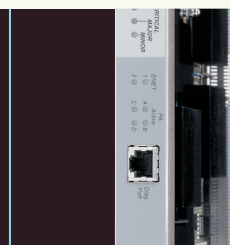


Multiservice Forwarding Module

For the DN 7000™ Series Multiservice Edge Switching and Aggregation Platform



CIENA'S DN 7000 SERIES MULTISERVICE EDGE SWITCHING AND AGGREGATION PLATFORM OFFERS HIGHLY RELIABLE, SCALABLE AND COST-EFFECTIVE ETHERNET- AND IP/MPLS-BASED SERVICE DELIVERY—from modern, data-aware access networks to the edge of the IP/MPLS core. The DN 7000 series delivers IP/MPLS, Ethernet, ATM, Frame Relay, and TDM functionality on a single platform.

The Multiservice Forwarding Module (MSFM) is at the heart of the DN 7000 series. The MSFM provides Layer 2 and Layer 3 any-service, any-port forwarding and processing capabilities, traffic management and local switching functionality, including simultaneous support for IP/MPLS and ATM/PNNI control planes.

The MSFM's high-capacity, high-performance multiservice functionality allows service providers to continue supporting traditional services effectively while converging new and existing networks and services seamlessly onto Ethernet and IP/MPLS. This capability enables flexible, low-cost delivery of advanced business data services as well as efficient backhaul and aggregation of 2G/3G mobile wireless and Triple Play traffic.

HIGH-CAPACITY, HIGHLY RELIABLE MULTISERVICE DATA/IP PROCESSING The MSFM next-generation processing architecture delivers industry-leading pseudowire, Virtual Circuit (VC), and Label-Switched Path (LSP) densities at much lower prices than traditional switches and routers. The Layer 2 and Layer 3 switching and forwarding functions, with 2.5 Gb/s performance, allow flexible and incremental increases in network capacity. The module's network processor-based design allows for line-rate data processing across multiple service types without negatively impacting performance. The MSFM can be deployed in 1:N protection modes and, when part of the DN 7000 series, delivers unmatched six-9s reliability, resulting in superior levels of service, SLA assurance and customer satisfaction.

SERVICE AND NETWORK MIGRATION TO IP/MPLS Because the MSFM supports advanced Ethernet service and network interworking with Frame Relay/ATM, it enables modular and customized data service delivery and ensures the network's future. By leveraging the MSFM's dual (IP/MPLS and ATM/PNNI) control plane functionality and pseudowire scalability, service providers can migrate, protect, and enhance their existing networks and services to converged Ethernet and IP/MPLS infrastructures.

ANY-SERVICE, ANY-PORT FLEXIBILITY WITH SUPERIOR PERFORMANCE The multiservice flexibility of the MSFM enables support for all DN 7000 series interface types regardless of speed or protocol, including the series' full range of Gigabit and 10/100 Ethernet and DS0-OC-48/STM-16 interface options. The any-service, any-port processing capability results in software-configurable services, a significant

FEATURES & BENEFITS

- » Capitalizes on new, high-growth opportunities including Ethernet, Triple Play and 2G/3G wireless services
- » Differentiates business data services with modularity and customization through Advanced Ethernet service interworking and Pseudowire Emulation Edge-to-Edge (PWE3)
- » Protects margins with more efficient support for traditional Layer 2 services
- » Migrates existing networks and services to a converged Ethernet and IP/MPLS network seamlessly, using dual MPLS and ATM control planes
- » Reduces sparing and provisioning costs and accelerates service activation with any-service, any-port processing for IP/MPLS, Ethernet, Frame Relay, ATM and TDM
- » Delivers unmatched 99.9999 percent reliability and MPLS pseudowire, LSP and VC densities