PLEXSTAR®

ADM400 SONET

Add-Drop Multiplexer/MSPP

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Product Overview

The Plexstar ADM400 is a highly integrated Add-drop Multiplexer (ADM)/Multiservice Provisioning Platform solution in a compact 1U chassis. There are two independent SONET optical interfaces supporting OC-12/3 rates. The add/drop features 28-T1s, eight Fast Ethernet (FE) or one Gigabit Ethernet (GE over Copper/Fiber) ports for PDH T1 and Ethernet over SONET. It contains 2.5G non-blocking memory-based cross-connect with MAPS™ support for APS. It provides SONET mapping and de-mapping for Ethernet and T1. The ADM400 is configured and managed by web based feature rich GUI.

Features

- Two independent SONET optical interfaces supporting OC-12/3 rates
- Add/drop featuring 28-T1s for PDH T1 and eight Fast Ethernet (FE) or one GE (Copper/Fiber) for Ethernet over SONET
- MSPP solutions in a compact 1U chassis facilitating better utilization of available rack space
- Low power consumption (16 watts)
- Traffic aggregator
- Supports SONET frame structures in tributary path
- Each of the eighty-four virtual tributary groups (VT groups) in STS-12 SPE can be independently configured to accept any one of the four tributary types (VT1.5, VT2, VT3, and VT6)
- Supports grooming up to VT1.5
- SMC compliant timing synchronization with ability to time from line, BITS, T1, or internal reference
- Web based secured control and status monitoring support
- Operating temperature 0° C to 70° C

Interfaces

- Two OC-12/3 SFP interfaces with line protection via fiber optics
- One GE interface via SFP or RJ45 connector
- Eight FE (10/100) using RJ45 connectors
- 28 T1s via RJ45 connectors
- Two 2.5G ESSI Expansion ports via high speed SATA connectors
- Two (10/100/1000) RJ45 interfaces for LAN and console connections

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Monitoring and Maintenance

- Higher-order and lower-order POH, SONET level alarms, and performance monitoring as Per ITU-T Rec G.826 and G.784
- Remote software downloads
- Various local and remote loop-backs

Timing and Synchronization

- Supports timing synchronization options from the SONET line, a BITS T1 interface, any of the T1 recovered clocks, or an internal reference. A combination of a digital PLL and an analogue PLL are used to meet the system requirements for synchronization, holdover, and jitter
- Meets the global timing requirements for OC-12/3

Protection

- 1+1 line protection and 1+1 power redundancy

Power

- Input power: 110/220VAC or -48VDC
- Power consumption: 16 watts
- Dual power input

Physical Dimension

- Size: 19" x 11" x 1U
- Weight: 7.5 pounds