

Add-Drop Multiplexer/MSP

ADM400 SDH

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 SDH optical interfaces supporting STM-4/1 rates. The add/drop features 21-E1s, eight Fast Ethernet (FE) ports or one Gigabit Ethernet (GE over Copper/Fiber) port for PDH E1 and Ethernet over SDH. It contains 2.5G non-blocking memory-based cross-connect with MAPS™ support for APS. It provides SDH mapping and de-mapping for Ethernet and E1. The ADM400 is configured and managed by web based feature rich GUI.



ADM400

Features:

- Two independent SDH optical interfaces supporting STM-4/1 rates
- Add/drop featuring 21-E1s for PDH E1 and eight Fast Ethernet (FE) or one GE (Copper/Fiber) for Ethernet over SDH
- MSP solutions in a compact 1U chassis facilitating better utilization of available rack space
- Low power consumption (20 watts)
- Traffic aggregator
- Supports SDH frame structures in tributary path
- Each of the four STM-1s within the STM-4 can independently configured to accept AU3, TUG3s in AU4. Each TUG2 can independently configured to accept any one of the three tributary types (TU11, TU12, and TU3)
- Supports cross-connects among VC4-4c, VC4, VC3, VC12 level, FE to SFP, FE to FE, E1 to SFP, E1 to E1, SFP to SFP, and GE to SFP
- SEC compliant timing synchronization with ability to time from line, BITS, E1, or internal reference
- Web based secured control and status monitoring support
- Operating temperature 0° C to 70° C

Interfaces:

- Two STM-4/1 SFP interfaces with line protection via fiber optics
- One GE interface via SFP or RJ45 connector
- Eight FE (10/100) via RJ45
- 21 E1s 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

Monitoring & Maintenance:

- Local and network NMS (central or hosted) support for configuration, alarm monitoring, reporting, and status display
- Remote software upgrade
- Built-in diagnostic tools are available to isolate errors in the network, such as,
 - Error reporting, status display
 - Loopback (In-loop/out-loop for all ports and all levels of cross-connect)
 - Trace message generation and display
 - Overhead bytes display and manipulation, etc.
- Full analyzer function is implemented in each optical interface including trace messages read/write, overhead bytes monitor/control, etc.

Timing & Synchronization:

- Supports timing synchronization options from the SDH line, a BITS E1 interface, any of the E1 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 ITU-T G.812 and G.813 timing requirements for STM-4 and STM-1. It also complies with the global timing requirements

Protection:

- 1+1 line protection and 1+1 power redundancy
- MSP between SFP1 and SFP2
- Seven groups of SNCP between any VT1.5 (SFP1 and SFP2) and any two T1 ports
- Seven groups of SNCP between any one T1 and any two T1 ports

Power:

- Input power: 110/220VAC or -48VDC
- Power consumption: 20 watts
- Dual power input

Physical Dimension:

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

