

SpectralWave

MN1100

Multi-Service Platform

MULTI-SERVICE OPTICAL ACCESS PLATFORM



COMPACT THIRD GENERATION MSTP SYSTEM COMBINES SERVICE DELIVERY AND BROADCAST FUNCTIONALITY SET

- **SMALL FOOTPRINT**
- **MULTI-SERVICE**
- **SDH UNIFIED DELIVERY**
- **DISTRIBUTED DESIGN**

The SpectralWave MN1100 is a new generation multi-service optical transport devices that effectively combines and delivers separate functions, previously attributed to multiple independent platforms. These functions includes Terminal Multiplexer (TM), Add-drop Multiplexer (ADM) and Digital Cross-Connect System (DCS). The MN1100 also supports 10M/100M Ethernet service interface for point-to-point transparent transmission.

This equipment drastically reduces service provider network complexity and simplifies network operations and maintenance.

TINY FOOTPRINT

The compact MN1100 is only 1U high. It provides versatile service access capabilities and an unprecedented price/performance ratio. The MN1100 chassis is based on the 19-inch standard and can be installed in any ETSI compliant, 19-inch rack. In addition, the platform may also be wall-mounted.

FULL SDH FUNCTIONALITY

The MN1100 provides a versatile suite of service capabilities including: Add-Drop Multiplexer (ADM), Digital Cross-connect System (DCS) and Ethernet switching and aggregation. This Integration drastically reduces service provider network complexity and simplifies network operations and maintenance. Essentially the MN1100 simplifies new deployments and extends the life of legacy SDH networks, enabling carries that are planning on providing next-generation services, to realize substantial savings on capital and operational expenditures. The MN1100 is able to add/drop various low-rate SDH signals directly into/from 155 Mbits SDH signals. It provides cross-connect functionality at VC-12 and has built-in native Ethernet services support. The MN1100 provides GFP protocol to map FE Ethernet services into NxVC-12 for transmission, management and LCAS

FULL SUITE OF PROTECTION SCHEMES

The MN1100 provides a full suite of network-level protection schemes including: SDH 1+1 MSP; 1:1 MSP; VC-12 Path Protection. The MN1100 supports 1+1 power source protection.

Technical Summary

HARDWARE

SYSTEM CHASSIS

Dimension

44 X 430 X 252 (H*W*D)

Weight

5kg (11 lb)

Temperature

5 °C to 40°C (Normal operating range)

Humidity

5 ~ 95% non-condensing

POWER

-48VDC, 24VDC, 110-220VAC

Power Consumption

25W fully loaded

COMPLIANCE

FCC Part 15 Class A, UL1950

CE, latest ITU-T standard

EN 55022(ClassA)

EN 55024,EN60950,EN60825

INTERFACE

NETWORK INTERFACE

STM-1, 1 or 2 ports: SMF, SFP optical transceivers, 1310nm/1550nm Intermediate Reach or Long Reach with LC connector

TRIBUTARY INTERFACE

10/100M Ethernet

Up to 2 ports

E1

Up to 16 ports

Cross-Connection

504X504 VC12

Unidirectional, Bidirectional, Broadcast, Drop and Continue

TIMING/SYNCHRONIZATION

SSM, External Bits Clock of Stratum 3,

E1 tributary external timing reference,

STM-1 line timing reference, Hold over, free runs

NETWORK MANAGEMENT

TL1, LCT (Local Craft Terminal)

SpectralWave MN9100



Safety Precautions

★ Before installing, connection or using this product, be sure to carefully read and observe the cautionary and prohibited matters provided in the instruction manual.

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