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NEC

SpectralWave
MN1200
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 MN1200 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 MN1200 is 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 MN1200 is only 1U high. It provides versatile service access capabilities and an unprecedented price/performance ratio. The MN1200 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 MN1200 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 MN1200 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 MN1200 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 MN1200 provides GFP protocol to map FE/GE Ethernet services into NxVC-12 for transmission, management and LCAS

FULL SUITE OF PROTECTION SCHEMES

The MN1200 provides a full suite of network-level protection schemes including: SDH 1+1 MSP; 1:N MSP; VC-12 Path Protection. The platform supports 1+1 hot redundant power supply by means of two independent -48V/24V DC power supply modules.

HARDWARE

SYSTEM CHASSIS

Dimension
45 X 430 X 252 (H*W*D)

Weight
5kg (11 lb)

Temperature

5 ℃ to 40℃ (Normal operating range

Humidity
5 ~ 95% non-condensing

POWER
  -48VDC, 24VDC, 110-220VAC

Power Consumption
35W 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

STM-1
2XSTM-1 (SFP)
STM-1E
2 port: SMB connector

10/100M Ethernet
Up to 2 ports
Point to point applications

E1
Up to 64 ports

Cross-Connection
SSM, External Bits Clock of Stratum 3,
E1 tributary external timing reference,
STM-1 line timing reference, Hold over, free runs

SDH CAPACITY
504X504 VC-12

TYPE
Unidirectional, Bidirectional, Broadcast,
Multicast, Drop and Continue

TIMING/SYNCHRONIZATION
SSM, External Bits Clock of Stratum 3 or better,
Tributary E1 external timing reference,
STM-1 line timing reference, Holder 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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