



EKINOPS PM 1001RR

10G Metro, Regional and Long-Haul Transponder & Regenerator

KEY FEATURES & BENEFITS

- 10G Transponder for metro/regional applications
- Supports OC-192/STM-64, 10GbE LAN PHY, WAN PHY and 10G FC
- Performs full 3R (*Retime, Reshape and Retransmit*) signal regeneration
- Industries best performing FEC - link distances up to 300 km without in-line amplifiers and with full channel counts
- Distances of more than 2000 km for multi span DWDM applications with full channel counts
- Wire speed performance with low latency and jitter
- Digital Diagnostic Monitoring and management via SNMP
- XFP line interface (1310 nm, 1550 nm or DWDM)
- Hot swappable

APPLICATIONS

- Wireless back haul
- Triple or Quadruple play
- Business Ethernet Services
- Metro, Regional and Long Haul transport
- 10G distance extension
- DWDM Infrastructure
- Upgrade existing CWDM and DWDM networks
- 10G signal regenerators

OVERVIEW

The EKINOPS PM1001RR transport module is part of the Ekinops360 platform serving as a metro, regional, or long haul regenerator as well as a metro transponder.

The PM 1001RR supports all 10G protocols from 9.95 Gbps to 10.709 Gbps, including 10GbE LAN PHY, WAN PHY, 10G FC, OTU2 and OC-192/STM-64.

APPLICATIONS

The EKINOPS PM 1001RR can be used as a single card regen at regeneration sites to extend the reach of your 10G link without amplification at a fraction of the cost. The PM 1001RR uses XFPs on both the client and line interfaces.

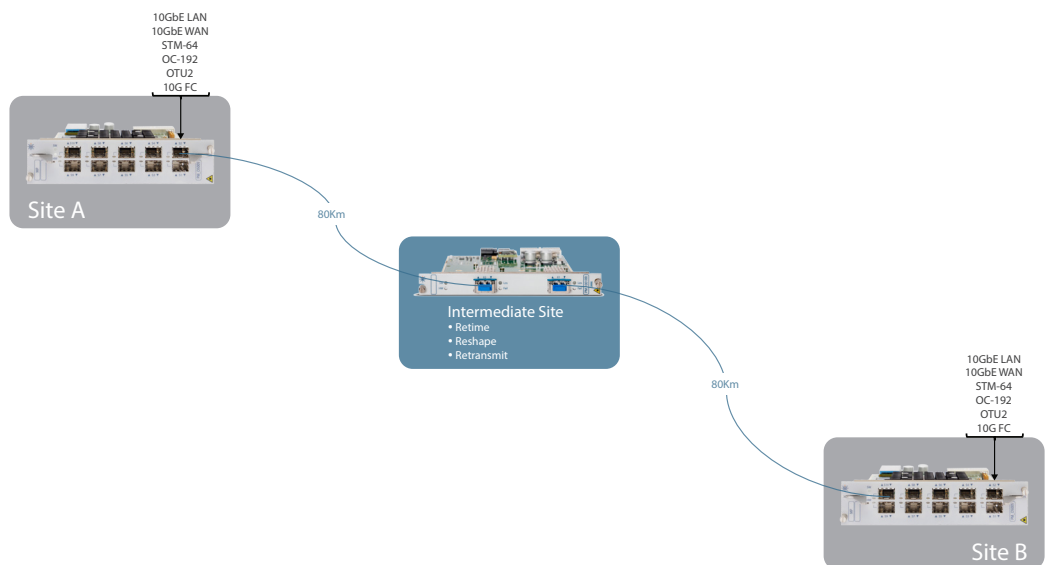
MANAGEMENT

The EKINOPS PM 1001RR module can be managed through SNMP or via the Ekinops standard element level management interfaces, which include a Command Line Interface (CLI) and an Ekinops Graphical User Interface (GUI). The CLI is accessible via Secure Socket Shell (SSH) and Telnet remotely or via a local serial port on the management board.

Complete performance monitoring and management are provided, including laser shutoff and local and remote loopback, useful for maintenance and fault isolation.

Digital Diagnostics Management (DDM) is supported for XFP interfaces. This includes link status, transmit (TX) and receive (RX) signal power monitoring, and operational temperature, as well as manufacturer and transceiver model information essential for inventory management.

The EKINOPS PM 1001RR module is also supported by **Celestis NMS**, the Ekinops advanced Network Management System.





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SPECIFICATIONS

• LINE INTERFACE

Protocol	Any 10G from 9,95 Gbps to 10,709 Gbps
Optical interface	XFP

• CLIENT INTERFACE

Protocol	Any 10G from 9,95 Gbps to 11,09 Gbps
Optical interface	XFP

• MANAGEMENT

MIB	SNMP V2c private MIB
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• PHYSICAL SPECIFICATIONS

Power consumption	10 W typical/max
Size	1 slot
Operating temperature	0°C to +50°C / +32°F to +122°F
Storage temperature	-20°C to +85°C / -4°F to +185°F

• INDICATORS

Status	HW ready, SW ready
Alarm	Loss of incoming signal (<i>line and client</i>) ; Transceiver Fail (<i>XFP/OTX, line and client</i>)

• REFERENCE STANDARD

XFP MSA rev. 4.0 ; ITU-T G707 12/2003 edition ; ITU-T G709 03/2003 edition ; Telcordia GR253 issue 3 ; IEEE 802.3-2002 ; IEEE 803.3ae-2002 ; Fiber Channel ; 10GFC rev. 3.5

ORDERING INFORMATION

PLUGGABLE MODULE (PM)

PRODUCT CODE	DESCRIPTION
PM_1001RR-XX	10G 3R Regenerator module with XFP line port A&B interfaces (<i>not included</i>)

EKINOPS CHASSIS

C600HC	High Capacity Modular Chassis 7RU
C200HC	High Capacity Modular Chassis 2RU
PM_MNGT4-2	Management Card
400EEM	Ekinops Craft Interface Software

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