



EKINOPS PM ROADM-FLEX-H32M

Flexgrid 32 Degree Pluggable ROADM

DATA SHEET 04 | 2026

KEY FEATURES & BENEFITS

- Dual WSS-based ROADM module
- Bi-directional OCM monitors channel power at ingress and egress
- Enables 2 to 32 degree ROADM node configurations
- Delivers colorless, directionless and contentionless (CDC) functionality
- Supports Flexgrid architecture—any mix of channel widths
- Allows non-traffic affecting expansion
- Provides automatic power balancing per channel

APPLICATIONS

- High bandwidth channels
- High-degree inter-network connectivity
- Optical mesh networks
- Automatic power balanced networks
- CDC and Flexgrid networks

OVERVIEW

EKINOPS PM ROADM-FLEX-H32M provides advanced Reconfigurable Optical Add Drop Multiplexer (ROADM) functionality in a pluggable module for the EKINOPS 360 platform. PM ROADM-FLEX-H32M provides the new standard for muxless designs utilizing a Route-and-Select architecture with a dual WSS a—one for the Transmit side and one for the Receive side—and Optical Channel Monitor (OCM), delivering multifunction capability while improving overall flexibility and performance of your network. By integrating all of these functions, the PM ROADM-FLEX-H32M eliminates the external cabling between modules to more effectively scale to any size network up to thirty-two degrees.

The PM ROADM-FLEX-H32M is designed from the ground up to support today's modern channel profile with high bit rates over 1 terabit per second adding advanced functionality to any optical transport network. It can be combined with either EKINOPS optical multiplexers or optical couplers to support full colorless, directionless and contentionless (CDC) system configuration. Automatic per-channel power balancing optimizes performance to achieve the highest Optical Signal-to-Noise Ratio (OSNR) possible and Flexgrid compatibility enables multi-rate designs by accommodating channels with different spectral widths and spacing requirements.

Having a compact and flexible form factor means "plug-and-play" scalability that allows the operator to add degrees when and where necessary without disrupting traffic on the existing degrees. Scalable from one to thirty-two degrees, the PM ROADM-FLEX-H32M extends the network beyond simple point-to-point and ring configurations to spurs and even optical mesh. It also eliminates the need for back-to-back transponders normally required for inter-network connectivity by providing an optical layer junction point for pure wavelength traffic.

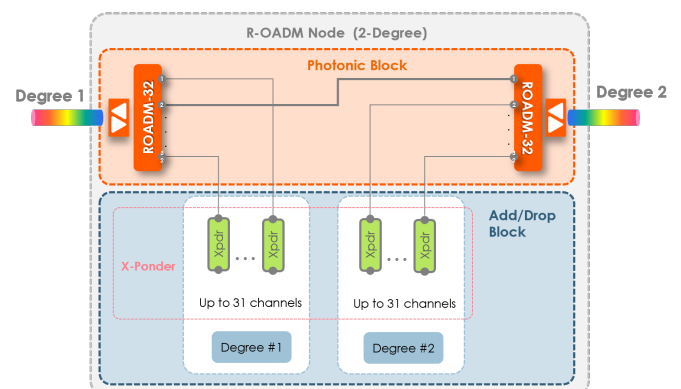
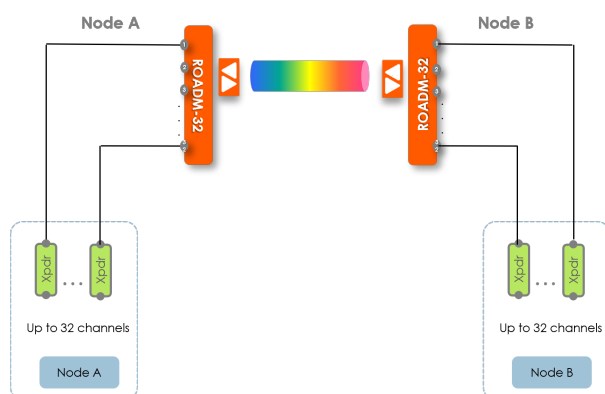


Figure 1: Muxless designs using PM ROADM-FLEX-H32M



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MANAGEMENT

The EKINOPS PM ROADM-FLEX-H32M 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 shutdown status, amplifier configuration parameters, input power, and output power. The EKINOPS PM ROADM-FLEX-H32M is also supported by **Celestis NMS**, the Ekinops advanced Network Management System.

SPECIFICATIONS

• WSS CHARACTERISTICS

Degrees	1-32
Operating bandwidth range	191.325-196.125 THz
Channels spacing	Flexgrid
Insertion loss (<i>max</i>)	8.5 dB
Optical Channel Monitor	Integrated

• PHYSICAL SPECIFICATIONS

Size	4 slots
Optical connectors	Dual LC
Power consumption (<i>typ.</i>)	20 W
Power consumption (<i>max.</i>)	25 W
Operating temperature	0°C to +50°C / +32°F to +122°F
Storage temperature	-20°C to +85°C / -4°F to +185°F

• MANAGEMENT

MIB	SNMP V2c / SNMP V3 Private MIB
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• REFERENCE STANDARD

ITU-T G.691, ITU-T G959.1, ITU-T G694.1

ORDERING INFORMATION

PLUGGABLE UNIT (PM)

PRODUCT CODE	DESCRIPTION
PM_ROADM-FLEX-H32M	Flexgrid single sided 32 degrees Reconfigurable Add & Drop Unit with integrated bidirectional Optical Channel Monitoring

EKINOPS CHASSIS

C700HC	High Capacity modular chassis 7RU
C600HC	High Capacity modular chassis 7RU
PM_MNGT4-2	Management card
400EEM	Ekinops Craft Interface Software

CONTACT



www.ekinops.com

Ekinops EMEA
sales.eu@ekinops.com

Ekinops APAC
sales.asia@ekinops.com

Ekinops Americas
sales.us@ekinops.com