

EKINOPS PM 800FR04

Pluggable FlexRate™ Muxponder

DATA SHEET 10 | 2026

KEY FEATURES & BENEFITS

- One module for all applications
- Selectable line rate evolution based on 140Gbaud technology
- Optimal performance for any capacity or reach requirement
- Supports both fixed- and flex-grid networks
- High SOP modes for higher tolerance of lightning strikes on aerial fiber
- Tunable optical filter *(TOF)* for plug-and-play deployment in ROADM and coupler-based networks
- Easy capacity addition using pluggable QSFP28 and QSFP56-DD client optics
- Simple inventory management and reduced sparing requirements

APPLICATIONS

- Long Haul & ULH Transport
- Metro/Regional Transport
- Data Center Interconnection
- Submarine Transport
- Alien wavelength
- Aerial fiber deployments

OVERVIEW

In today's networking environment, service providers and other network operators require the ability to deliver a variety of applications and services. With a highly differentiated customer base that is demanding a broad set of services with guaranteed performance, they need a high capacity network that is capable of delivering any service to any point in the network. This means having flexibility at the transport layer that is equivalent to the services layer. EKINOPS PM 800FR04 delivers an unprecedented level of configurability and manageability that allows service providers to tune their optical transport network to match their service level needs. Capable of operating in multiple different modes, it supports any type of transport application from metro access to ultra-long haul including data center interconnectivity and even submarine transport.

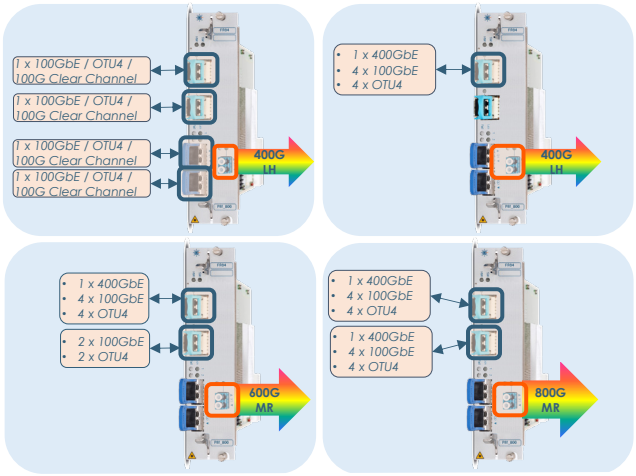


Figure 1: Multiple operating modes of PM 800FR04

The PM 800FR04 has multiple adjustable parameters including modulation scheme, Forward Error Correction *(FEC)* overhead and baud rate as well as tunable wavelengths that allow service providers to optimize the reach and capacity of their transport network.

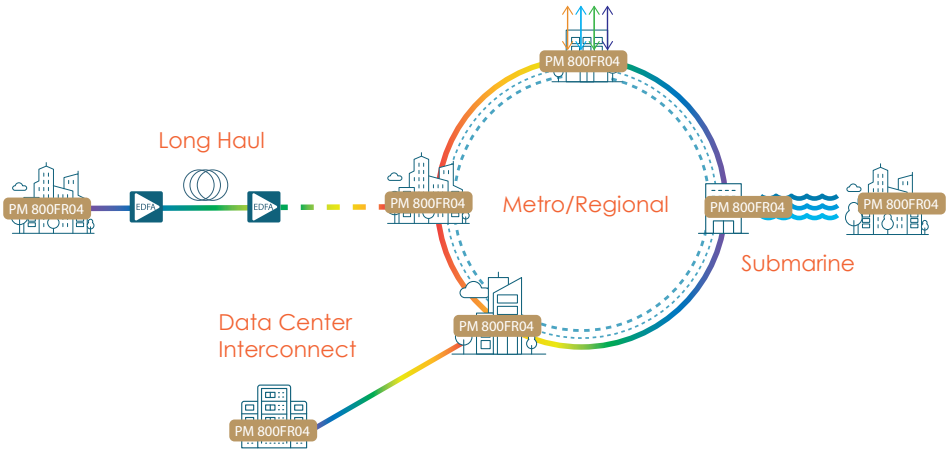
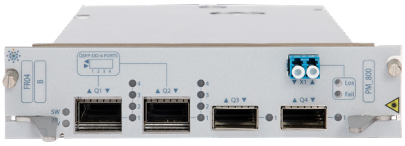


Figure 2: PM 800FR04 supports multiple different applications

The module supports multiple modes at both 400G and 600G line rates to operate over 100GHz fixed-grid as well as flex-grid networks including high State of Polarization *(SOP)* modes for use over aerial fibers for higher tolerance of lightning strikes.

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MANAGEMENT

The EKINOPS PM 800FR04 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, which is useful for maintenance and fault isolation. Digital Diagnostics Management *(DDM)* is supported for QSFP28 and QSFP56-DD interfaces. Complete performance monitoring and management are provided by Celestis NMS, the Ekinops advanced Network Management System.

SPECIFICATIONS

• CLIENT INTERFACES

Protocols	100GbE; 100GbE Clear Channel; OTU4; 400GbE
Optical interface	2 xQSFP28 2x QSFP56-DD

• LINE INTERFACES

	400G-LH	400G-LH*	600G-MR*	600G-LH	800G-MR
Modulation	DP-QPSK	PS-16QAM	DP-32QAM	PS-16QAM	DP-16QAM
Baud rate	138 Gbaud	84 Gbaud	84 Gbaud	134 Gbaud	137 Gbaud
Channel spacing	150 GHz	100 GHz	100 GHz	150 GHz	150 GHz

** High SOP mode runs @ 85 Gbaud*

• MANAGEMENT

MIB	SNMP V2c / SNMP V3 Private MIB

• PHYSICAL SPECIFICATIONS

Module size	2 slots
Operating temperature	0°C to +50°C / +32°F to +122°F
Storage temperature	-20°C to +85°C / -4°F to +185°F

Power consumption	400G-LH (150GHz)	400G-LH (100GHz)	600G-MR (150GHz)	600G-MR (100GHz)	800G-MR
Typ.	100W	100W	104W	97W	115W
Max.	119W	119W	111W	103W	130W

• INDICATORS

Status	HW ready, SW ready
Alarm	Port down *(Client & Line)*

• REFERENCE STANDARDS

ITU-T G707 01/2007 edition; ITU-T G709; IEEE 802.3-2002; IEEE 803.3ae-2002; IEEE 802.3ba; ISO/IEC 18033-3

ORDERING INFORMATION

PLUGGABLE MODULE (PM)

EKINOPS CHASSIS

PRODUCT CODE	DESCRIPTION
PM_800FR04-B	400G/ 800G FlexRate muxponder, 4 client ports *(2x QSFP28, 2xQSFP56-DD, support 100GbE, OTU4 & 400GbE)*, 1 tunable line interface with DCC *(QSFP28/56/DD not included, tunable line interface included)*.
C700HC	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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