

SMS 800QFR04

Quad 800G Transponder Sled for the PTM Platform

DATA SHEET 10 | 2026

KEY FEATURES & BENEFITS

- Four independent transponders per sled—3.2T capacity in a single slot
- Programmable QSFP56/112-DD DCO pluggable transceivers—no license fee to upgrade
- Ultra-low power consumption—0.08W per Gbps
- Supports any mix of 100GbE, 400GbE and 800GbE clients per sled
- L-band ready

APPLICATIONS

- Datacenter interconnection
- Scale-across
- Metro/Regional transport
- Long Haul & ULH transport
- Signal regeneration

OVERVIEW

Ekinops SMS 800QFR04 is a quad 800G transponder for Ekinops PTM product family consisting of four (4) independent transponders on one module. Occupying a single slot in the PTM chassis, each SMS 800QFR04 delivers up to 3.2 Tbps of capacity. Its sled-based form factor allows for a level of port density not possible on chassis-based transponders. Each pair of transceivers—one client and one line—operates completely independent of the other three using dedicated hardware for each port.

The SMS 800QFR04 is based on the latest generation of 140Gbaud coherent technology to deliver optimal performance no matter the application, line rate or distance. As with all of Ekinops' coherent solutions, there are no license fees or hidden charges for upgrading performance allowing service providers to add capacity without additional cost [1].

The SMS 800QFR04 provides multi-rate client support for any mix of Ethernet services including 100GbE, 400GbE and 800GbE providing efficient aggregation of services onto high-speed optical links. Pluggable transceivers are used for both client and line ports with the coherent line ports based on QSFP56/112-DD DCO optics with an adjustable line rate from 400G to 800G.

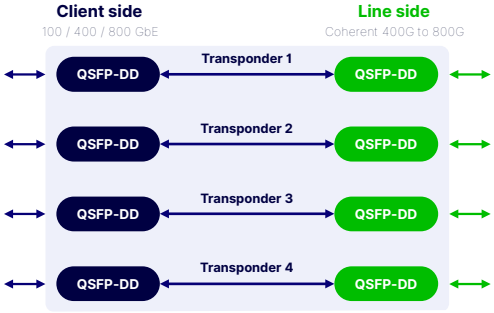


Figure 1: SMS 800QFR04 quad transponder for the PTM platform

APPLICATIONS

Ekinops SMS 800QFR04 is designed to datacenter specifications including high port density and low power requirements. Though built primarily for datacenter interconnect (DCI) and scale-across applications, the SMS 800QFR04 is equally capable of serving typical telco requirements for metro/regional and long haul WDM transport. For extended distance applications, especially at full line rate, SMS 800QFR04 can function as a signal regenerator to connect any client port to any other point on the network, no matter where it is located.

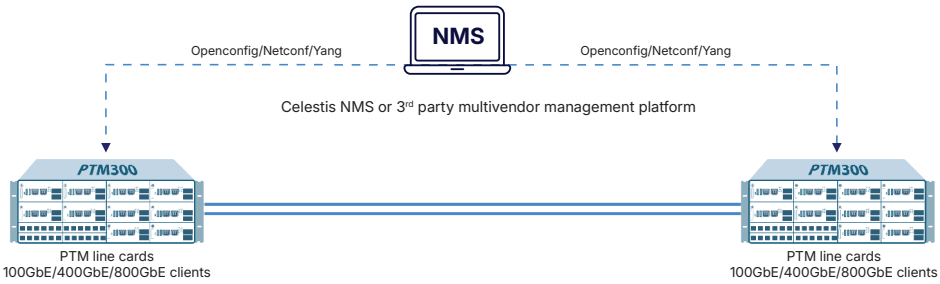
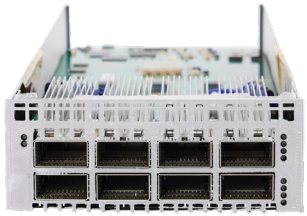


Figure 2: SMS 800QFR04 for point-to-point datacenter interconnection

[1] Transceivers excluded.

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MANAGEMENT

Ekinops PTM uses an open network architecture allowing an easy integration in the customer IT environment. This approach enables advanced data processing by exposing network information to AI and machine learning tools via APIs for automating network operations such as root cause analysis, preventive maintenance and real time traffic optimization. Based on Ekinops OneOS6 operating system, the PTM platform uses the Open Networking Forum *(ONF)* standard OpenConfig YANG model allowing it to be managed either by Ekinops Celestis NMS or any standards-based third-party system for managing inventory, topology, services, streaming and notifications.

SPECIFICATIONS

• CLIENT INTERFACES

Protocols	100GbE; 400GbE; 800GbE
Optical interface	4x QSFP56-DD/QSFP112-DD

• LINE INTERFACES

	400G-MR	400G-LH	600G-MR	800G-MR
Baud rate (GBaud)	87	131	131	131
Channel spacing (GHz)	100	150	150	150

• MANAGEMENT

NBI	OpenConfig NETCONF/YANG
Remote management	10 Mb FCC (Flex-O Communications Channel)

• PHYSICAL SPECIFICATIONS

Module size	1 slot
Operating temperature	+5°C to +40°C / +41°F to +104°F
Storage temperature	-20°C to +85°C / -4°F to +185°F
Power (typ.)	206W *(varies according to modulation and baud rate used; includes client optics)*
Power (typ.)	250W *(varies according to modulation and baud rate used; includes client optics)*

• INDICATORS

Status	HW ready, SW ready
Alarm	Port down *(Clients & Lines)*

• REFERENCE STANDARDS

IEEE 802.3-2002; IEEE 803.3ae-2002; IEEE 802.3ba; ISO/IEC 18033-3 , GR-3160-Core

ORDERING INFORMATION

SLED MODULE (SM)

EKINOPS CHASSIS

PRODUCT CODE	DESCRIPTION
SMS_800QFR04	Single sled quad transponder module, with 4x programmable lines 400G to 800G, 4 QSFP-DD Ethernet client ports *(QSFP-DD not included)*, 4 QSPF-DD 400G/800G line ports *(not included)*. Compatible with PTM300 chassis
PTM300	Compact Modular Chassis 3RU
SM_MCC	Management and Control Card
SM_MCC Software License	SM_MCC software license

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CONTACT

www.ekinops.com

Ekinops EMEA
sales.eu@ekinops.com

Ekinops APAC
sales.asia@ekinops.com

Ekinops Americas
sales.us@ekinops.com

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