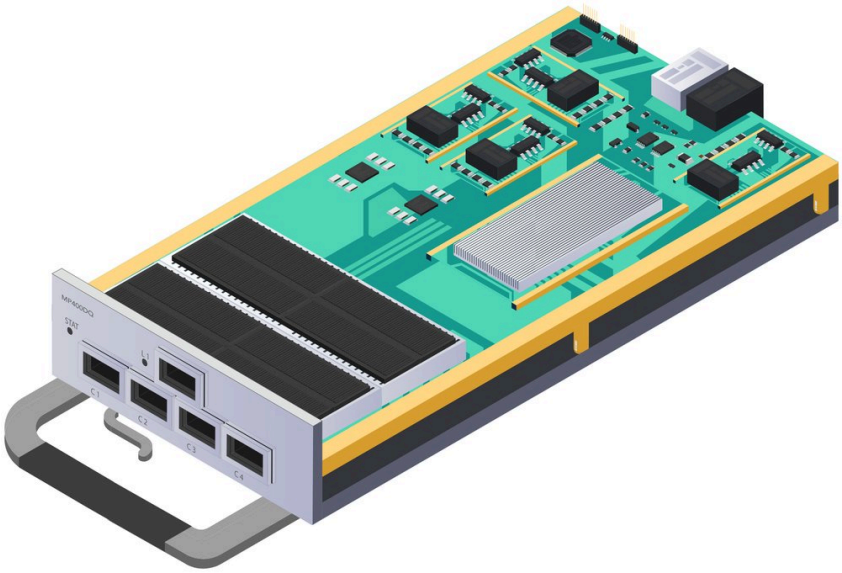
nex·gen

OTN SYSTEMS DCI PLATFORMS

400G Coherent Muxponder, 4×100G to 400G (QSFP-DD) for DCI Chassis

This 400G coherent muxponder service card multiplexes four 100GbE clients onto a single 400G coherent line wavelength over a pluggable QSFP-DD DCO, with programmable 100G–400G line rate and full C-band tunability and flex-grid for metro and long-haul DCI transport. The single-slot card fits the OTN DCI platform range.



HIGHLIGHTS

4×100G to 400G aggregation

Four identical pluggable QSFP28 client ports multiplex four 100GbE clients onto a single 400G coherent line wavelength.

Programmable coherent line

A pluggable QSFP-DD DCO delivers programmable 100G–400G operation with C-band tunability (191.275–196.125 THz) and flex-grid.

Simple Ethernet client access

Four QSFP28 client ports carry 100GbE and 100GbE FlexE, with inner and outer loopback on both line and client side for fast turn-up and testing.

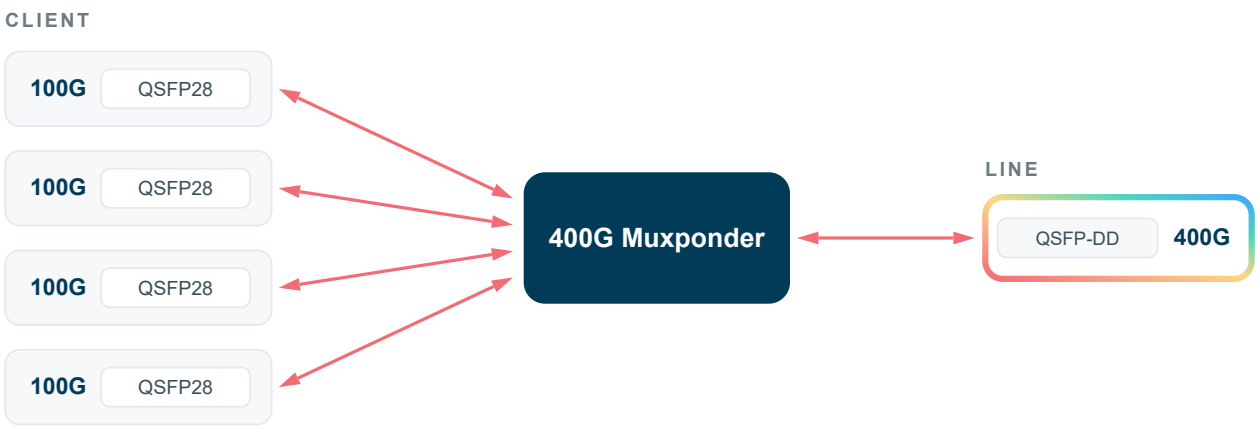
Deep performance visibility

Monitors line- and client-side performance and alarms, Ethernet RMON, optical-module temperature/current/voltage/power, and telemetry.

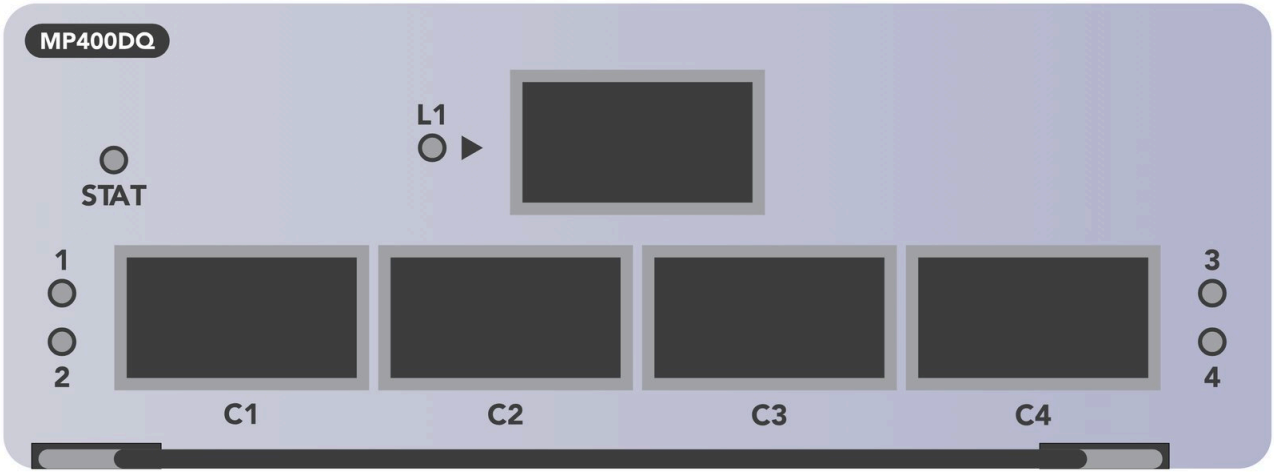
Compact single-slot footprint

A single-slot card compatible with both DCI chassis, drawing under 71 W with the optical module fitted.

FUNCTIONAL STRUCTURE



FRONT PANEL



FORMAT

CARD FOR DCI CHASSIS 1 SLOT

SPECIFICATIONS

Line Side	
Interface	1 × QSFP-DD DCO, pluggable
Line Rate (Programmable)	100G–400G
Tunable Range	191.275–196.125 THz (C-band, flex-grid)
Output Power (Adjustable)	Adjustable, range depends on optical module

Client Side	
Interfaces	4 × QSFP28, pluggable
Client Capacity	4 × 100G
Supported Services	100GbE, 100GbE FlexE (unaware)

OAM & Monitoring	
Loopback	Inner and outer loopback, line-side and client-side
LLDP	Receive mode only
ALS	Client-side support (optional)
Alarm Delay Insertion	Local Fault alarm delay insertion with configurable delay time (optional)
Performance Monitoring	Line- and client-side performance and alarm monitoring, Ethernet RMON, optical-module temperature/current/voltage/power, telemetry

Mechanical & Power	
Slots Occupied	1 (compatible with the OTN DCI platform range)
Maximum Power Consumption	< 71 W (typical)

ORDERING INFORMATION

NAME	400G Coherent Muxponder, 4×100G to 400G (QSFP-DD) for DCI Chassis
DESCRIPTION	400G coherent muxponder card, 1 slot. Multiplexes four 100GE clients onto a single 400G coherent line (QSFP-DD DCO), programmable 100G-400G with C-band tunability and flex-grid; 4x QSFP28 clients; supports 100GbE and 100GbE FlexE services.
PART NUMBER	**DCI-MP-QDD-400G-4x100G-1S**

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