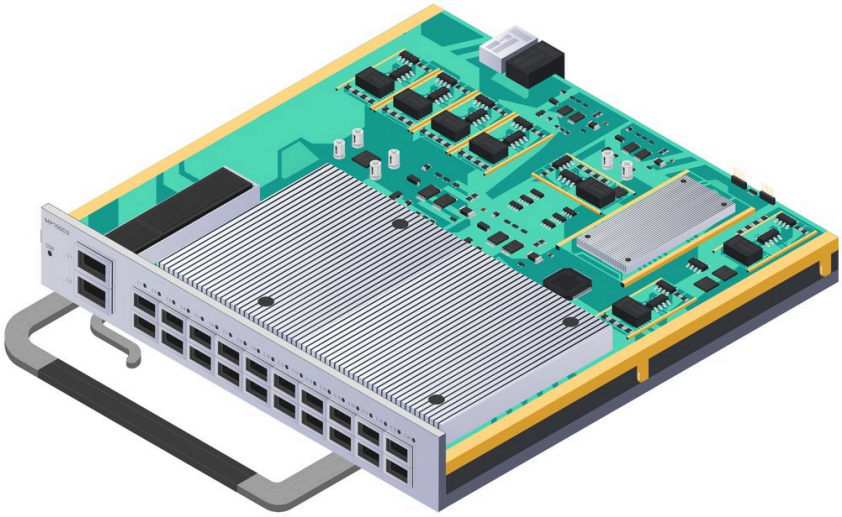
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OTN SYSTEMS DCI PLATFORMS

100G Coherent Muxponder, 2×10×10G to 2×100G (QSFP28/QSFP-DD) for DCI Chassis

This 100G coherent muxponder service card maps twenty 10G-class client signals onto two independent OTU4 line signals for full capacity, or ten client signals onto one OTU4 line signal with intra-board 1+1 protection. The line side takes QSFP28 grey or QSFP-DD DCO modules; the two-slot card fits the OTN DCI platform range.



HIGHLIGHTS

Two working modes

Runs as 20×10G to 2×OTU4 for maximum capacity, or as 10×10G to 1×OTU4 with intra-board 1+1 protection, trading capacity for resilience.

Grey or coherent line optics

Two QSFP28/QSFP-DD line ports accept grey QSFP28 modules for shorter reach or QSFP-DD DCO modules with C-band tunability (191.3–196.1 THz).

Broad 10G-class service support

Twenty hot-swappable SFP+ client ports carry 10GbE, 25GbE, STM-64, 10GbE_WAN, Fibre Channel up to 3200, and OTU2/OTU2e.

Deep performance visibility

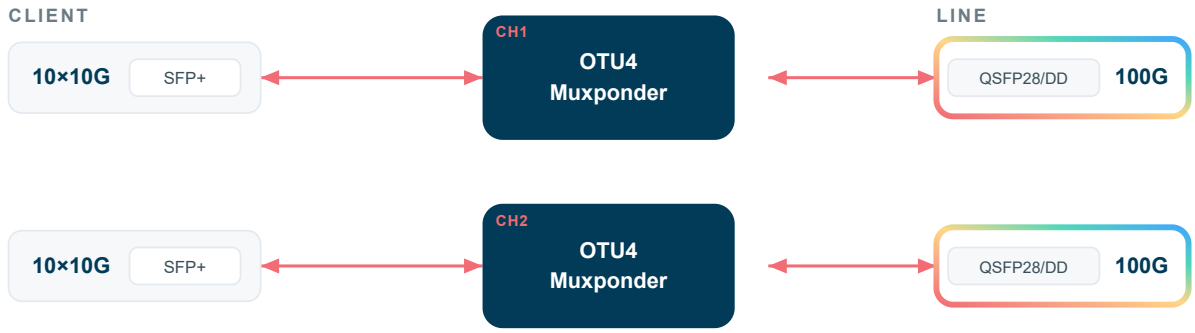
Monitors line- and client-side performance and alarms, Ethernet RMON, optical-module health, ODU-layer delay measurement, and telemetry.

High client-port density

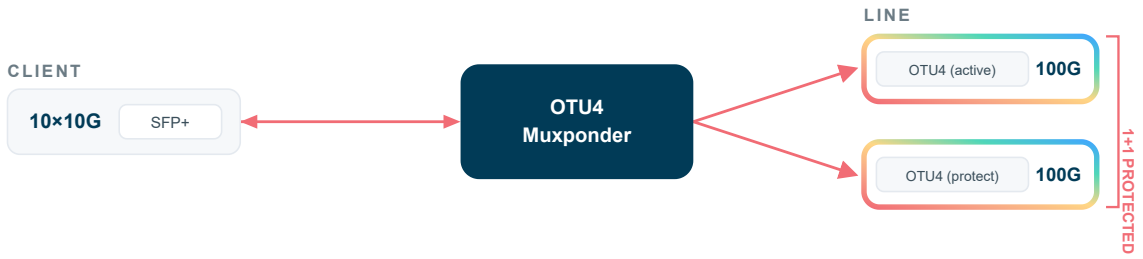
Twenty hot-swappable client ports on a two-slot card, drawing under 116 W with both optical modules fitted.

FUNCTIONAL STRUCTURE

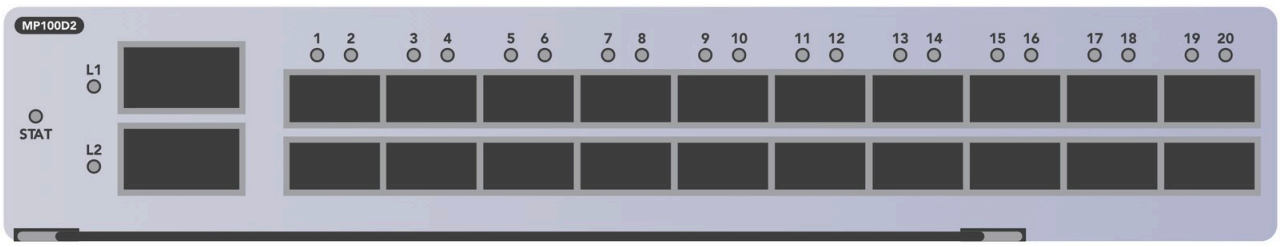
MODE 1 20×10G to 2×OTU4 mode (full capacity, two independent line channels, no protection)



MODE 2 10×10G to 1×OTU4 mode (intra-board 1+1 protection: the second line port carries a protected copy of the same OTU4 signal instead of independent capacity)



FRONT PANEL



FORMAT

CARD FOR DCI CHASSIS 2 SLOTS

SPECIFICATIONS

Line Side	
Interfaces	2 × QSFP28/QSFP-DD, pluggable (grey QSFP28 or DCO coherent module)
Line Rate	100G per port (OTU4)
Tunable Range	191.3–196.1 THz, C-band (DCO optical module)

Client Side	
Interfaces	20 × SFP+, hot-swappable
Supported Services	10GbE, 25GbE, STM-64, 10GbE_WAN, Fibre Channel 800/1600/3200, OTU2, OTU2e
Working Mode	20×10G Any to 2×OTU4 · or 10×10G Any to 1×OTU4 (intra-board 1+1 protection)

OAM & Monitoring	
Latency Measurement	Online delay measurement based on the ODU layer, line-side
Loopback	Inner and outer loopback, line-side and client-side
LLDP	Receive mode only, Ethernet service types
ALS	Client-side support, non-OTN service types
Intra-Board 1+1 Protection	Supported in 10×10G Any to 1×OTU4 working mode
Performance Monitoring	Line- and client-side performance and alarm monitoring, Ethernet RMON, optical-module temperature/current/voltage/power, telemetry

Mechanical & Power	
Slots Occupied	2 (compatible with the OTN DCI platform range)
Maximum Power Consumption	< 116 W (typical)

ORDERING INFORMATION

NAME	100G Coherent Muxponder, 2×10×10G to 2×100G (QSFP28/QSFP-DD) for DCI Chassis
DESCRIPTION	100G coherent muxponder card, 2 slots. Maps twenty 10G-class client services (20x SFP+ ports) onto two independent OTU4 line signals for full capacity, or ten clients onto one OTU4 line signal with intra-board 1+1 protection; line side takes QSFP28 grey or QSFP-DD DCO modules with C-band tunability; supports 10GbE, 25GbE, STM-64, Fibre Channel and OTU2/OTU2e services.
PART NUMBER	**DCI-MP-QDD-2x100G-20x10G-2S**

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