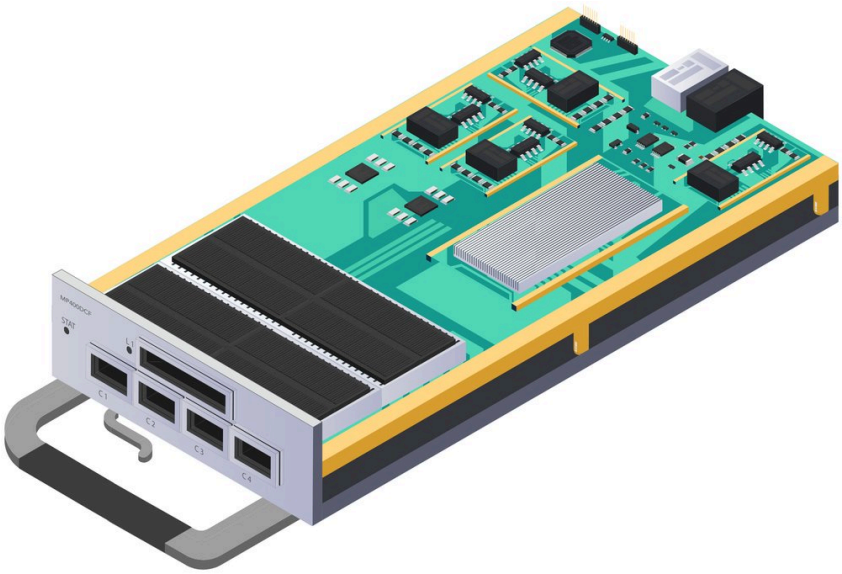
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OTN SYSTEMS DCI PLATFORMS

# 400G Coherent Flex Muxponder, 4×100G or 1×400G to 400G (CFP2) for DCI Chassis

This 400G coherent Flex muxponder service card has a flexible client side: it either aggregates up to four 100GbE/OTU4 clients or carries one 400GbE client directly, onto a single 400G coherent line wavelength over a pluggable CFP2 DCO, with programmable 100G–400G line rate and full C-band tunability for metro and long-haul DCI transport. The single-slot card fits the OTN DCI platform range.



## HIGHLIGHTS

### Flexible 4×100G or 1×400G client side

One flexible QSFP-DD/QSFP28-compatible port plus three fixed QSFP28 ports: use all four ports to aggregate up to four 100GbE/OTU4 clients, or the flexible port alone to carry one 400GbE client, onto a single 400G coherent line.

### Programmable coherent line

A pluggable CFP2 DCO delivers programmable 100G–400G operation with C-band tunability (190.69375–196.65625 THz), flex-grid and adjustable launch power.

### Flexible, service-rich client access

Client ports carry 100GbE, 100GbE FlexE, 400GbE and optional OTU4, including 100GbE/OTU4 hybrid

### Deep performance visibility

Monitors line- and client-side performance and alarms, Ethernet RMON, optical-module health,

transmission, with optional single-fibre bidirectional line transmission.

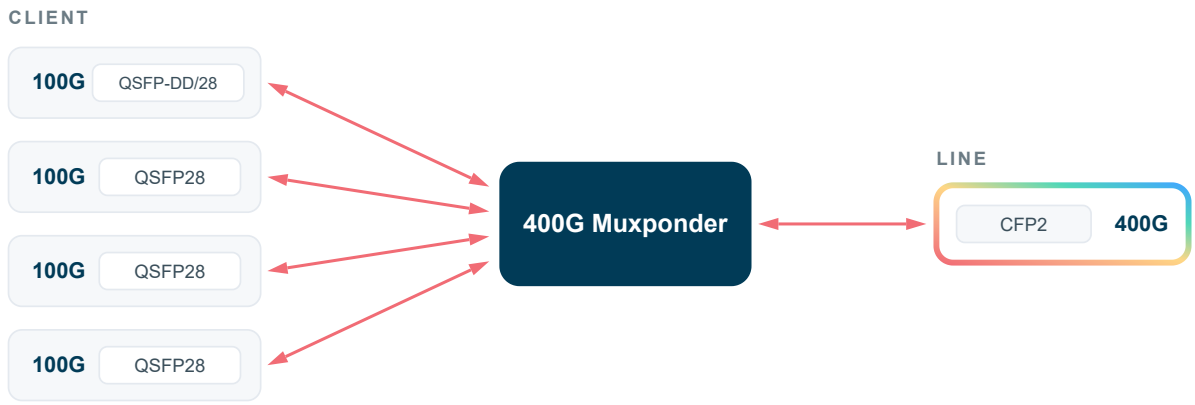
### Compact single-slot footprint

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

optional ODU-layer delay measurement, and telemetry.

## FUNCTIONAL STRUCTURE

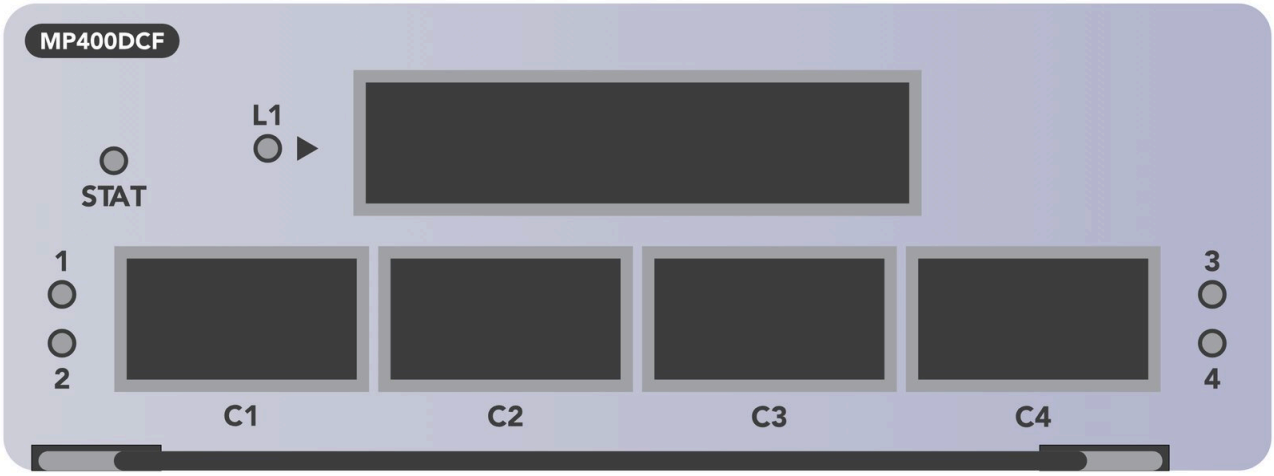
**MODE 1** 4×100G client mode (aggregation, all four client ports populated with QSFP28 modules)




**MODE 2** 1×400G client mode (direct pass-through using the flexible QSFP-DD port only; the three QSFP28-only ports are unused)



## FRONT PANEL




## FORMAT

CARD FOR DCI CHASSIS 1 SLOT

## SPECIFICATIONS

| Line Side | |
|---|---|
| **Interface** | 1 × CFP2 DCO, pluggable |
| **Line Rate (Programmable)** | 100G–400G |
| **Tunable Range** | 190.69375–196.65625 THz (C-band, flex-grid optional) |
| **Output Power (Adjustable)** | Adjustable, range depends on optical module |
| **Single-Fibre Bidirectional** | Optional |

| Client Side | |
|---|---|
| **Interfaces** | 1 × QSFP-DD/QSFP28-compatible + 3 × QSFP28, pluggable |
| **Client Capacity** | Up to 4 × 100G-equivalent, within the 400G line cap |
| **Supported Services** | 100GbE, 100GbE FlexE (unaware), 400GbE, OTU4 (optional), 100GbE/OTU4 hybrid (optional) |

| OAM & Monitoring | |
|---|---|
| **Latency Measurement** | Online delay measurement based on the ODU layer, line-side (optional) |
| **Loopback** | Inner and outer loopback, line-side and client-side (optional) |
| **LLDP** | Receive mode only (Ethernet service types) |
| **ALS** | Client-side support, Ethernet service types (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 Flex Muxponder, 4×100G or 1×400G to 400G (CFP2) for DCI Chassis |
| DESCRIPTION | 400G coherent Flex muxponder card, 1 slot. Flexible client side: multiplexes up to 4x100GE/OTU4 or carries a single 400GbE client onto a single 400G coherent line (CFP2 DCO), programmable 100G-400G with C-band tunability and flex-grid; 1x QSFP-DD/QSFP28-compatible + 3x QSFP28 clients; supports 100GbE, 100GbE FlexE, 400GbE and OTU4 services. |
| PART NUMBER | **DCI-MP-CFP2-400G-4x100G-F-1S** |

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