

# DCP-1203

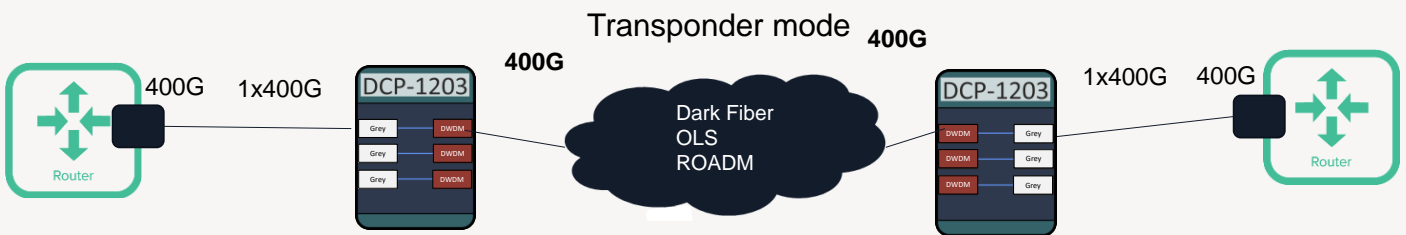
3 x 100/400G transponder



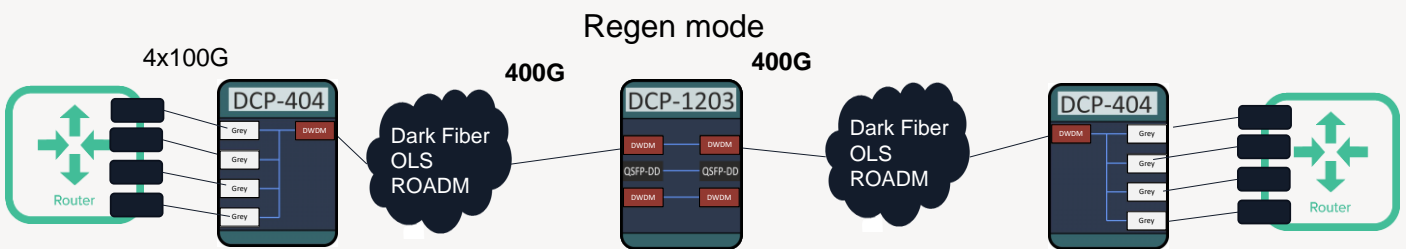
## A TRANSPONDER FOR 100/400ZR+ DWDM APPLICATIONS

The DCP-1203 offers a cost efficient solution for 100G and 400G transport in a small form factor with low power consumption and low latency. It has three individual transponders on the same card. Each transponder can be used in 100G or 400G mode. The client side can use a flexible range of QSFP28 client types for 100G and QSFP-DD for 400G. The line side can use coherent DWDM 100GZR+, 400GZR and 400GZR+ QSFP-DDs.

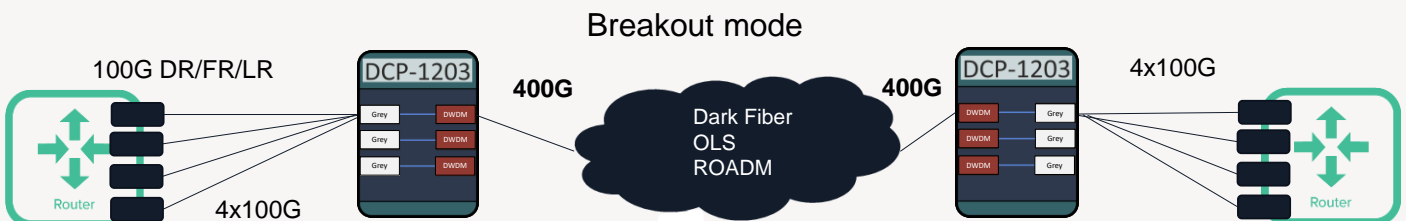
The DCP-1203 is designed to handle two main use cases, one is to convert from grey 100/400G optics to DWDM and one where it is required to have demarcation point for signal hand-off. The first case is valid when it is not possible to put coherent DWDM 100G or 400G QSFP-DDs embedded in switches and routers. For the second case the transponder offers a demarcation point where it is possible to measure performance data before handing off the signal to another system.



It is also possible to use the DCP-1203 for regeneration with coherent DWDM QSFP-DDs on both client and line side. From a thermal and power perspective it is not allowed to use coherent QSFP-DDs on all 6 ports at the same time. It is allowed to use two repeaters at the same time, but then transponder number 2 should not be used at all.



DCP-1203 can also be used for breakout with 4x100G on the client side when DR4, FR4 or LR4 optics is used. Future release.



## DCP-1203 IN SHORT

- Layer 1 Transponder for DCP-2 chassis
- Support for 3 individual transponders with 100/400G on each
- OTU4 support
- Support for 3 x QSFP28/QSFP-DD ports for client signals
- Support for a flexible range of 100G QSFP28 client type in 100G mode (SR4, LR4, CWDM4, ER4, ZR4)
- Support for a flexible range of 400G QSFP-DD client type in 400G mode (DR4, FR4, LR4, ER4 Lite)
- Support for regeneration on two individual transponders at the same time
- Support for 4x100G breakout from DR4, FR4 or LR4 optics (from R11)
- Support for 100G ZR+, 400G ZR and 400G ZR+ line rates
- Low power consumption
- Low latency Design

## ORDERING INFORMATION

### DCP Series product codes

DCP-1203	3 x 100/400G Transponder, 1RU plug-in unit, Client port: 3xQSFP-DD, Line port: 3xQSFP-DD
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## TECHNICAL SPECIFICATIONS

### PRODUCT CONFIGURATION

3x 100/400G Transponder with QSFP28 and QSFP-DD

#### 100G QSFP28 CLIENT INTERFACES:

100G SR4 QSFP28  
 100G LR4 QSFP28  
 100G CWDM4 QSFP28  
 100G ER4 QSFP28  
 100G ZR4 QSFP28

#### 400G QSFP-DD CLIENT INTERFACES:

400G DR4  
 400G FR4  
 400G LR4  
 400G ER4 Lite

#### LINE INTERFACES:

100G OpenZR+ QSFP-DD  
 400G ZR QSFP-DD  
 400G OpenZR+ QSFP-DD (low power and high power)

#### VISUAL INDICATORS

Status LED Power & Alarm status  
 Client LED: 3 x individual client Tx/Rx  
 Line LED: 3 x individual line Tx/Rx

#### MANAGEMENT

CLI, SSH, SNMPv2c, SNMPv3  
 NTP, SFTP, Syslog, RADIUS, TACACS+

#### TRAFFIC COMBINATIONS

Client	Line Speed	Modulation
100GbE	100G	QPSK
400GbE	400G	16QAM

### SOFTWARE UPGRADES

Traffic hitless software upgrades

### SW FEATURES

Line In-loop and Line Out-loop  
 Link Loss Forwarding  
 Performance Monitoring

### DIMENSIONS

Size (WxDxH)  
 1.73 x 8.07 x 10.63"  
 44 x 205 x 270mm  
 Weight: 1.8 Kg / 4 lbs

### POWER CONSUMPTION

Typical consumption at 220VAC:  
 Normal operation: 40 W  
 Max during power up: TBD W

### LATENCY

400G QSFP-DD CFEC: 8  $\mu$ s  
 400G QSFP-DD OFEC: 5  $\mu$ s  
 100G QSFP-DD OFEC: 11  $\mu$ s  
 Max TBD  $\mu$ s for the card

### ENVIRONMENTAL

Operating temp: 0°C to +45°C  
 Cooling: Front to back  
 Humidity: 5% to 85%  
 Altitude: 3000 m (10.000 ft)

NOTE. THE INFORMATION IN THIS DOCUMENT IS VALID FROM  
 RELEASE R10.0.1

Subject to change without notice.

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