

DCP-1203

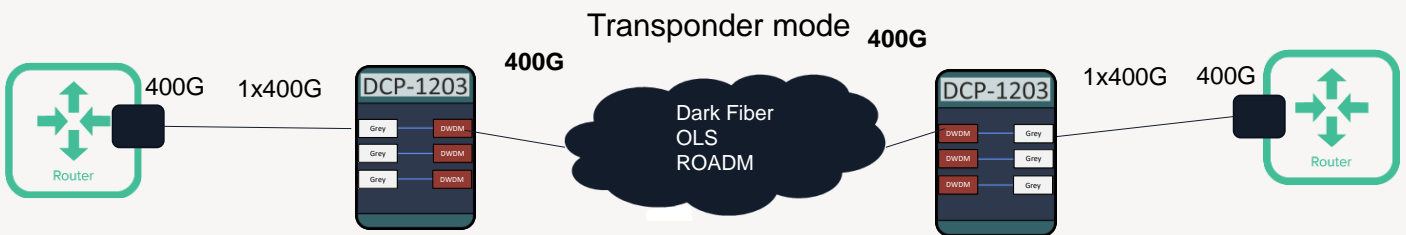
3 x 100/400G transponder



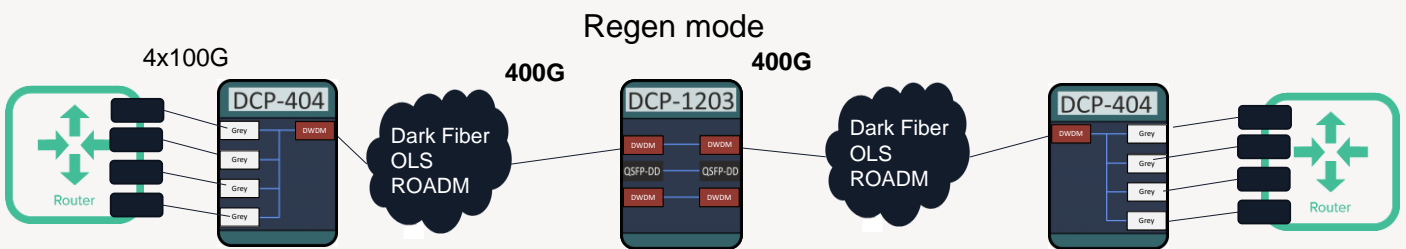
A TRANSPONDER FOR 100/400ZR+ DWDM APPLICATIONS

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.

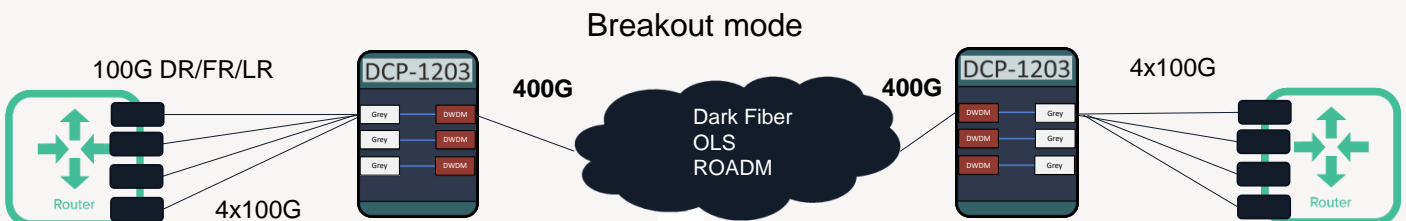
The DCP-1203 is designed to handle two main use cases, one is to convert from grey 100/400G optics to DWDM and one where it is required to have demarcation point for signal hand-off. The first case is valid when it is not possible to put coherent DWDM 100G or 400G QSFP-DDs embedded in switches and routers. 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
- 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 etc.)
- Support for regeneration on two individual transponders at the same time
- Support for 4x100G breakout from DR4, FR4 or LR4 optics (from R9.0)
- 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

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 μ s
400G QSFP-DD OFEC: 5 μ s
100G QSFP-DD OFEC: 11 μ s
Max TBD μ 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 R8.1

Subject to change without notice.

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