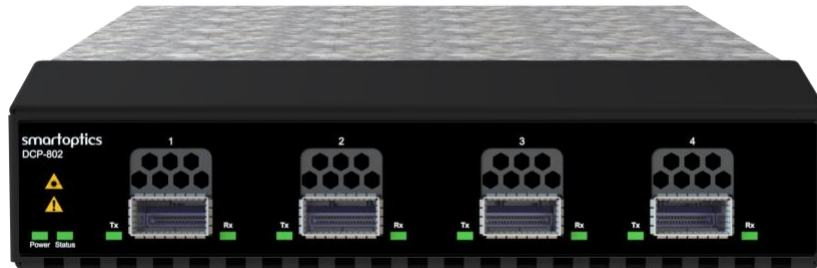


DCP-802

2 x 400/800G flexponder

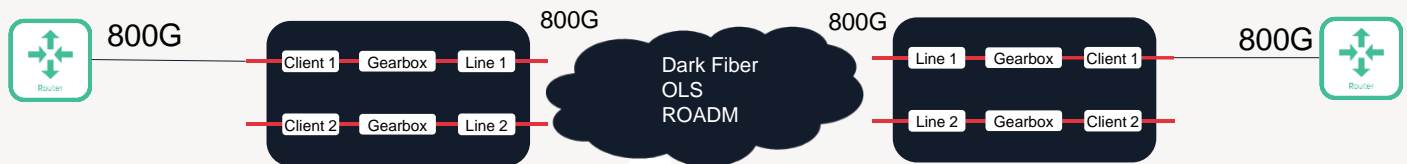


A FLEXPONDER FOR 100/400/800G DWDM APPLICATIONS

The DCP-802 offers a cost-efficient solution for 100G, 400G and 800G transport in a small form factor with low power consumption and low latency. It has two individual transponders on the same card. Each transponder can be used in 400G or 800G mode on the line side. For the client side it is possible to use 400G or 800G in transponder mode or 8x100G or 2x400G in breakout mode.

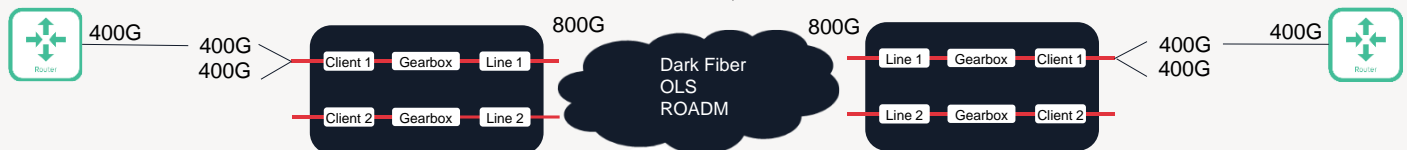
The DCP-802 is designed to handle three main use cases, one is to convert from grey 400/800G optics to DWDM, one where it is required to have demarcation point for signal hand-off and one where the unit is used for aggregation of 100/400G to 800G. The first case is valid when it is not possible to put coherent DWDM 400G or 800G 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. In both cases, the transponder mode is used on DCP-802.

Transponder mode

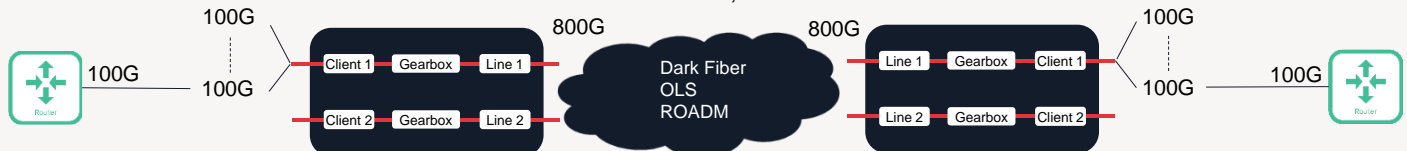


DCP-802 can also be used for breakout with 8x100G or 2x400G on the client side.

Breakout mode; 2x400G



Breakout mode; 8x100G



DCP-802 IN SHORT

- Layer 1 flexponder for DCP-2 chassis
- Support for 2 individual transponders with 400/800G on each
- Support for 2 x QSFP-DD 400/800G ports for client signals

- Support for 2x400GBASE-DR4, 2x400GBASE-FR4, 2x400GBASE-LR4 on the client side
- Support for coherent QSFP-DD 800G ZR and 800G OpenROADM on the line side
- Support for 2x400GbE breakout
- Support for 8x100GbE breakout
- Low power consumption
- Low latency Design

ORDERING INFORMATION

DCP Series product codes	
DCP-802	2 x 800G Transponder, 1RU plug-in unit, Client port: 2xQSFP-DD, Line port: 2xQSFP-DD

TECHNICAL SPECIFICATIONS

PRODUCT CONFIGURATION

2x 400/800G Transponder with QSFP-DD

800G QSFP-DD CLIENT INTERFACES:

2x400GBASE-DR4

2x400GBASE-FR4

2x400GBASE-LR4

LINE INTERFACES:

800G ZR QSFP-DD

800G OpenROADM QSFP-DD

VISUAL INDICATORS

Status LED Power & Alarm status

Client LED: 2 x individual client Tx/Rx

Line LED: 2 x individual line Tx/Rx

MANAGEMENT

CLI, SSH, SNMPv2c, SNMPv3

NTP, SFTP, Syslog, RADIUS, TACACS+

TRAFFIC COMBINATIONS

Client	Line Speed	Modulation
800GbE	800G	16QAM
400GbE	400G	QPSK
2x400GbE	800G	16QAM
8x100GbE	800G	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: TBD Kg / TBD lbs

POWER CONSUMPTION

Typical consumption at 220VAC:

Normal operation: TBD W

Max during power up: TBD W

LATENCY

800G ZR QSFP-DD OFEC: TBD μ s

800G OpenROADM QSFP-DD: TBD 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 R12.1.1

Subject to change without notice.

For more information visit smartoptics.com.

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