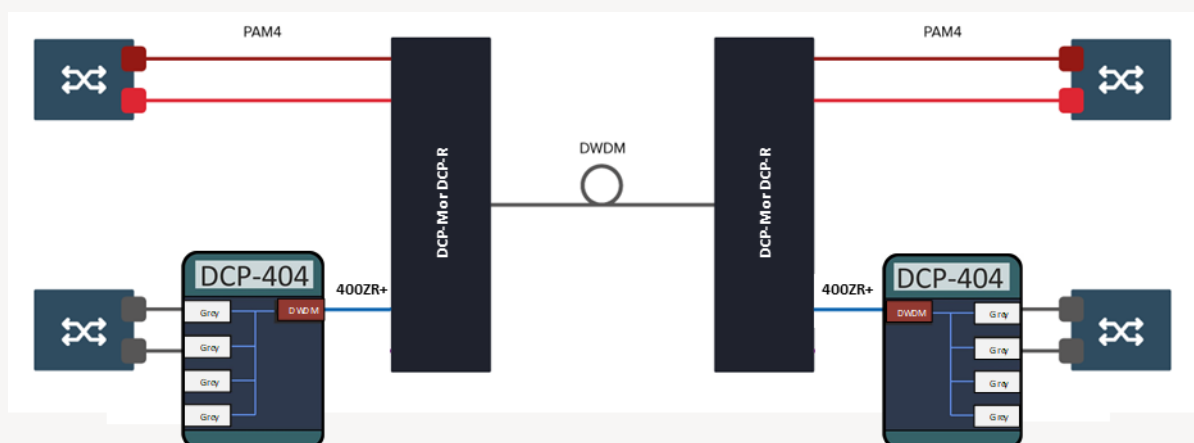# DCP-404

4 x 100GE muxponder

A MUXPONDER FOR 400ZR+ DWDM APPLICATIONS

In 100G configurations where low cost multiplexing and bandwidth utilisation are important factors, the DCP-404 open muxponder is the ideal solution. Equipped with 400G OpenZR+ DWDM transceivers, the DCP-404 is the ideal product for multiplexing 100G services in a cost-efficient way at the subscriber premises. The DCP-404 has support for 4 x 100G with QSFP28 on the client side and 1 x 400G with QSFP-DD on the line side. This includes support for a flexible range of QSFP28 client types (with and without FEC) and 400ZR+ DWDM optics on the line side.

DCP-404 IN SHORT

- Layer 1 Muxponder
- Support for 4 x QSFP28 ports for client signals
- Support for a flexible range of QSFP28 client type (SR4, LR4, CWDM4, ER4, ZR4)
- Support for one line module of Coherent 400ZR+ QSFP-DD or coherent 100G ZR+ QSFP-DD
- Support for grey QSFP-DDs (LR4, FR4, DR4)
- Support for multiple different line rates to ensure optical reach
- Low power consumption
- Low latency Design

ORDERING INFORMATION

DCP Series product codes	
DCP-404	4x 100G muxponder, 1RU plug-in unit, 100G Ethernet, Client port: QSFP28, Line port: QSFP-DD

TECHNICAL SPECIFICATIONS

PRODUCT CONFIGURATION
400G Muxponder 4 x 100GbE, QSFP28 to QSFP-DD.

CLIENT INTERFACES:
100G SR4 QSFP28
100G LR4 QSFP28
100G CWDM4 QSFP28
100G ER4 QSFP28
100G ZR4 QSFP28
100G DR QSFP28
100G FR QSFP28
100G LR QSFP28
100G FRx QSFP28
100G LRx QSFP28

LINE INTERFACES:
400G OpenZR+ QSFP-DD (high power and low power)
100G OpenZR+ QSFP-DD
400G LR4 (CMIS4)
400G DR4 (CMIS4)
400G FR4 (CMIS4)

VISUAL INDICATORS
Status LED Power & Alarm status
Client LED: 4 x individual client Tx/Rx
Line LED: Line Tx/Rx

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

TRAFFIC COMBINATIONS

Client	Line Speed	Modulation
4 x 100GbE	400G	16QAM
3 x 100GbE	300G	8QAM
2 x 100GbE	200G	QPSK
1 x 100GbE	100G	QPSK

SOFTWARE UPGRADES
Traffic hitless software upgrades

SW FEATURES
Client In-loop and Client Out-loop
Link Loss Forwarding
Performance Monitoring
Ethernet PM with BIP error counter

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: 56W
Max during power up: 64W

LATENCY
Latency for SO-TQSFPDD4CCZRP:
400G CFEC: 8 μs
400G OFEC: 5 μs
300G OFEC: 6 μs
200G OFEC: 7 μs
100G OFEC: 11 μs
Max 1 μs 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 R9.0

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