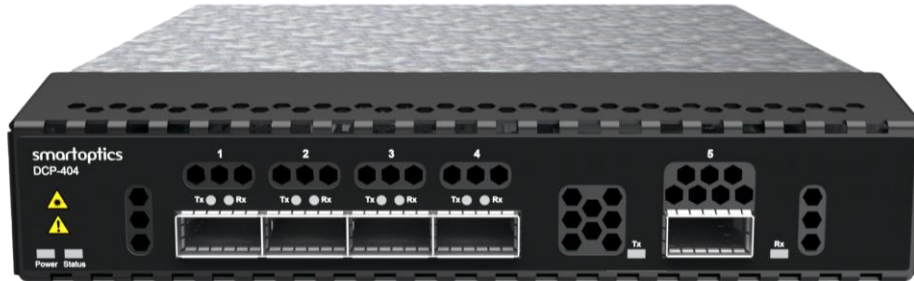


# DCP-404

4 x 100GE muxponder

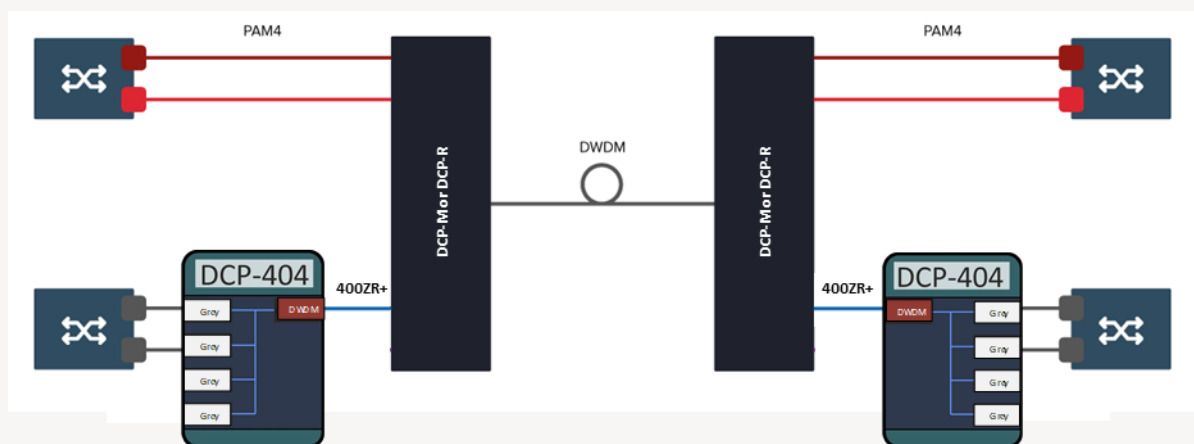


## A MUXPONDER FOR 400ZR+ DWDM APPLICATIONS

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, ER4 Lite)
- Support for multiple different line rates to ensure optical reach
- Layer 1 AES-256 GCM encryption with Diffie-Hellman key exchange
- Low power consumption
- Low latency Design



Subject to change without notice.

For more information visit [smartoptics.com](https://www.smartoptics.com).

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## ORDERING INFORMATION

### DCP Series product codes

DCP-404	4x 100G muxponder, 1RU plug-in unit, 100G Ethernet, Client port: QSFP28, Line port: QSFP-DD
DCP-404-CRYPTO	Layer-1 AES-256 GCM encryption firmware for DCP-404 incl. Crypto-license

## 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)  
 400G ER4 Lite

### 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  
 G.826 PM  
 Layer 1 AES-256 GCM encryption with Diffie-Hellman key exchange

### 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  $\mu$ s  
 400G OFEC: 5  $\mu$ s  
 300G OFEC: 6  $\mu$ s  
 200G OFEC: 7  $\mu$ s  
 100G OFEC: 11  $\mu$ s  
 Max 1  $\mu$ s for the card  
 Encryption adds 2.35  $\mu$ s per 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

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