

# DCP-110

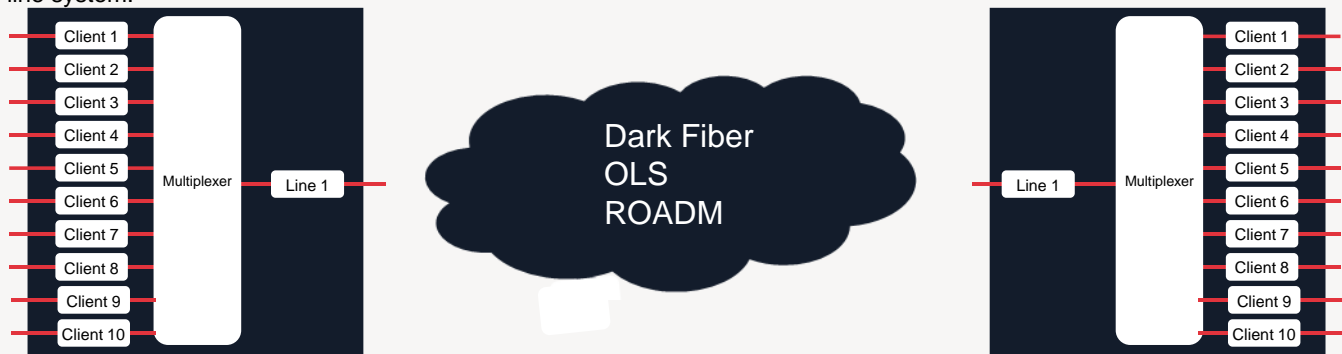
10 x 10G to 100G Muxponder



## A MUXPONDER FOR 10G AGGREGATION TO 100G

The DCP-110 offers a cost efficient solution for L1 aggregation of 10GbE to 100G. For the line side it is possible to use grey 100G QSFP28 or coherent DWDM 100G QSFP-DD. The client side can use a flexible range of SFP+ client types for 10GbE.

When QSFP-DD is used on the line side the DCP-110 will use a coherent DWDM signal that can be directly connected to a DWDM line system.



## DCP-110 IN SHORT

- Layer 1 Muxponder for DCP-2 chassis
- Support for 10 x 10G SFP+ for client signals
- Support for a flexible range of 10G SFP+ clients (SR, LR, ER, ZR, CWDM, DWDM, etc.)
- Support for grey QSFP28 LR4 on line side
- Support for coherent 100G DWDM QSFP-DD.
- Layer 1 AES-256 GCM encryption with Diffie-Hellman key exchange
- Low power consumption
- Low latency Design

## ORDERING INFORMATION

### DCP Series product codes

DCP-110	10 x 10G to 100G Muxponder, 1RU plug-in unit, Client port: 10xSFP+, Line port: 1xQSFP-DD
DCP-110-CRYPTO	Layer-1 AES-256 GCM encryption firmware for DCP-110 incl. Crypto-license

## TECHNICAL SPECIFICATIONS

### PRODUCT CONFIGURATION

10 x 10GbE Muxponder, 100G Line, QSFP28 or QSFP-DD

### 10G SFP+ CLIENT INTERFACES:

10G SR SFP+  
 10G LR SFP+  
 10G ER SFP+  
 10G ZR SFP+  
 10G DWDM (fixed channels)  
 10G CWDM

### QSFP28 LINE INTERFACES:

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

### QSFP-DD LINE INTERFACES:

100G ZR+ QSFP-DD with MLG support

### VISUAL INDICATORS

Status LED Power & Alarm status  
 Client LED: 10 x individual client Tx/Rx  
 Line LED: 1 x individual line Tx/Rx

### MANAGEMENT

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

### SOFTWARE UPGRADES

Traffic hitless software upgrades

### SW FEATURES

Client In-loop and Client Out-loop  
 Link Loss Forwarding  
 Performance Monitoring  
 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: 52 W  
 Max during power up: 60 W

### LATENCY

Max 11  $\mu$ s for the QSFP-DD  
 Max TBD  $\mu$ 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 R10.0.1

Subject to change without notice.

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

smartoptics