

DCP-108

8 channel transponder for QSFP28 transceivers



HIGH-DENSITY TRANSPONDER

In 100G DWDM configurations where it is not feasible to embed the PAM4 QSFP28 transceivers directly in the switch, or when setting up a demarcation point in an operator's network, the DCP-108 eight channel open transponder is the ideal solution. Equipped with PAM4 QSFP28 transceivers, the DCP-108 is the ideal product for terminating 100G services in a cost-efficient way at the subscriber premises. The DCP 108 has support for 40G with QSFP+ on the client side and PAM4 on the line side as well as for 100G with QSFP28 on the client side and PAM4 on the line side. This includes support for any type of QSFP28 client type (with and without FEC) in a high density (1.6 Tbit/s in 1U) module at a very low cost per Gbit. In addition to the use as transponder, the DCP-108 can also be used as repeater or media converter.

DCP-108 IN SHORT

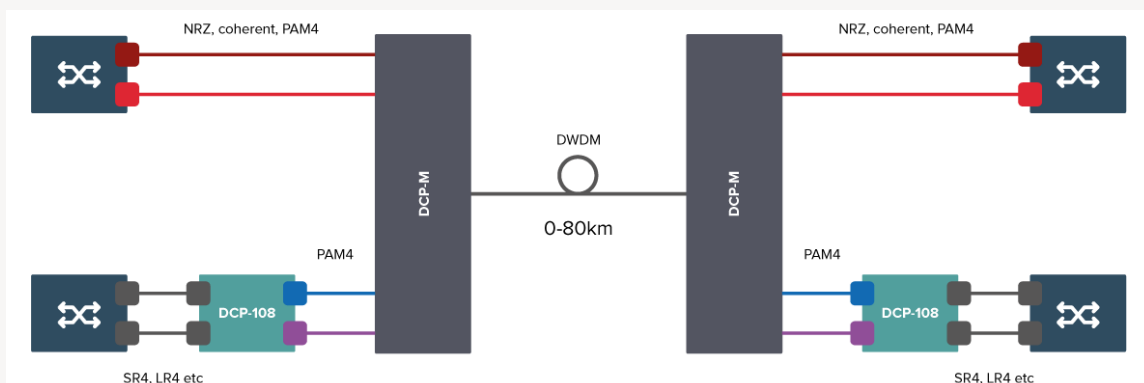
Addresses two principal cases

- Switches and routers without PAM4 support
- Wholesale providers in need of demarcation

Support for PAM4 on line side and any type of QSFP28 client:

- With and without FEC
- 40G with QSFP+
- 100G with QSFP28

High density (1.6Tbps in 1U)



AUTOMATED CONFIGURATION, ZERO-TOUCH PROVISIONING AND SMART MANAGEMENT

DCP-M brings an unprecedented level of plug and play simplicity to DWDM DCI networking, being designed with ease of use in mind. Automated configuration and zero-touch provisioning mean that installation and adding new connections can be done in minutes also by staff with only a basic knowledge of optical networking.

Subject to change without notice.

For more information visit smartoptics.com.

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ORDERING INFORMATION

Part number	Description
DCP-108	8 channels, 40 & 100Gbps, Transponder, QSFP28 to QSFP28

TECHNICAL SPECIFICATIONS

PRODUCT CONFIGURATION

8 x Transponders for 40GbE & 100GbE, QSFP28 to QSFP28.

CLIENT AND LINE INTERFACES:

40G traffic:

DWDM PAM4 QSFP28

SR QSFP+

LR QSFP+

ER QSFP+

ACO QSFP+

100G Traffic:

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

100G DWDM PAM4

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: 66W

Max during power up: 108W

ENVIRONMENTAL

Operating temp: 0°C to +45°C

Cooling: Front to back

Humidity: 5% to 85%

Altitude: 3000 m (10.000 ft)

VISUAL INDICATORS

Status LED Power & Alarm status

Client LED: Client Tx/Rx for each port

Line LED: Line Tx/Rx for each port

MANAGEMENT PROTOCOLS

SSH/CLI, SNMP, NTP, TFTP, TACACS+, Radius, Syslog

In future release: REST, NetConf

SOFTWARE UPGRADES

Traffic hitless software upgrades

SW FEATURES

Client and Line in loop

Client and Line out loop

Link Loss Forwarding

PRBS

Performance Monitoring