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DCP-108
8 channel transponder for QSFP28 transceivers

HIGH-DENSITY TRANSPONDER

In 100G DWDM configurations where it is not feasible to embed the PAM4 QFSP28 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.
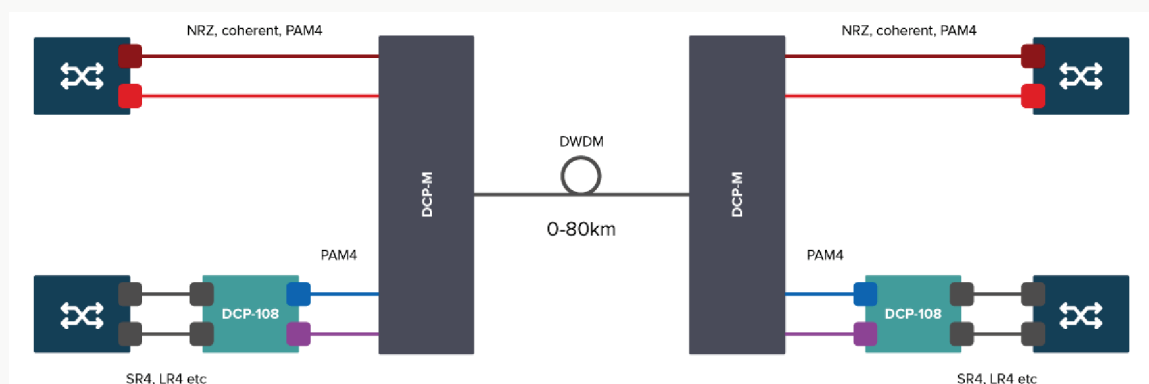
DCP-108 IN SHORT

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.

ORDERING INFORMATION

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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 INTERFECES:
40G traffic:
DWDM PAM4 QSFP28
SR QSFP+
LR QSFP+
ER QSFP+
ACO QSFP+

100G Traffic:
DWDM PAM4 QSFP28
SR QSFP28
LR QSFP28
ER, QSFP28
ACO QSFP28

VISUAL INDICATORS
Status LED Power & Alarm status
Client LED: Client Tx/Rx for each port
Line LED: Line Tx/Rx for each port

NETWORK MANAGEMENT
Management and console ports via chassis
4 x RJ45 management ports 10/100/1000 Base-T
1 x SFP management port 1000 Base-X
1 x RS-232 serial port
1 x RJ-45 local craft 10/100/1000 Base-T

MANAGEMENT PROTOCOLS
SSH/CLI, SNMP, REST, NTP, TFTP, Syslog

SOFTWARE UPGRADES
Traffic hitless software upgrades

SW FEATURES
Client and Line in loop
Client and Line out loop
Link Loss Forwarding
PRBS
Performance Monitoring

DIMENSIONS
Size (WxDxH)
1.73 x 8.07 x 10.63"
44 x 205 x 270mm
Weight: 1.8 Kg / 4 lbs

ENVIRONMENTAL
Operating temp: 0°C to +45°C
Cooling: Front to back
Humidity: 5% to 85%
Altitude: 3000 m (10.000 ft)

Subject to change without notice.

For more information visit smartoptics.com.