

DCP-1610

10 channel, 1G-16Gbps, Transponder, SFP+ to SFP+, PM



DCP-1610 IN SHORT

- Modular ½ width 1U ten channel transponder for use with DCP-2 modular xWDM system
- Supported Protocols:
 - 10G Ethernet (LAN & WAN)
 - 1G Ethernet
 - STM-64 & OC192
 - 16G Fibre Channel
 - 8G Fibre Channel
- OTN line side protocol with/without GFEC G.709
- Low power consumption
- SFP+ interfaces, tunable DWDM, DWDM, CWDM, LR and SR
- Encryption AES-256-GCM
- Client and line performance monitoring
- PRBS traffic test
- Plug and play operation
- Front to back airflow
- CLI, SNMP

DCP-1610 VERSATILE 1G/10G/40G & 8G/16G 10 CHANNEL TRANSPONDER

The DCP-1610 is a high density multilane transponder module for the DCP-2 1U chassis system.

Each DCP-1610 offers ten independent transponders operating from 1G to 16G line rates, enabling 20 x DWDM channels per 1U (40 x DWDM channel per 2U) for high capacity needs.

40G interfaces can be transported via 4x10G wavelength groups with CWDM or DWDM traffic being supported.

The DCP-1610 is perfect for new xWDM transmission installations or as part of any modern disaggregated DWDM deployment strategy (for example any of the Open Source Hardware initiatives) and can be used with any mux/demux platform compliant to ITU DWDM standard G.694.1 or CWDM standard G.694.2.

G.709 FEC is available on all interfaces for 8G/10G/40G protocols to extend the transmission distance in amplified systems.

8G/10G/16G/40G traffic can be encrypted using next generation encryption techniques compliant to FIPS 140-2 Suite B.

For 8G/10G/40G traffic this encryption can be combined with GFEC G.709 for long distance transport.

6 out of the 10 ports can be used for encryption.

TECHNICAL SPECIFICATIONS

PRODUCT CONFIGURATION

10x1G-16G Transponder, SFP+ to SFP+

LINE INTERFACE

Optical interface: SFP+
Line rate: up to 14.3Gbps
DWDM ITU-T G.694.1

8G/16G traffic:
16G DWDM ER
8G DWDM ZR
8G DWDM ER
8G CWDM ZR
8G CWDM ER

1G-10G traffic:
Multirate from 1G to 11.1G
Tunable ER 40km
Tunable ZR 80km
DWDM ER 40km
DWDM ZR 80km

CLIENT INTERFACE

Optical interface: SFP+
1G-16G traffic:
SR, LR
1G-10G traffic:
SR, LR

MANAGEMENT PROTOCOLS

CLI, SNMP, SSH, Syslog, RADIUS, TACACS, SNMP, TFTP and FTP

ONLINE ACCESS MANAGER (OAM)

Facility loopback (client and line interfaces), PRBS, ALS, LLF
Event logger alarms

VISUAL INDICATORS

Indicator LED:
Client link
Client Tx
Client Rx
Line link

Line Tx
Line Rx

Status LED:
System Critical / Major / Minor / Power

PERFORMANCE MONITORING

Layer 1 PM for all services
OTN PM for uplink
Optical power Rx & Tx levels for all optical ports

SOFTWARE UPGRADES

Traffic hitless software upgrades

APS (FUTURE RELEASE)

Automatic protection switching

ENCRYPTION (OPTION)

AES-256-GCM. 6 ports available for encryption.

ENVIRONMENT

Operating temp: 0° C to 45° C
Humidity: 5% to 85% RHI
Cooling: front to back and back to front straight through air flow

POWER CONSUMPTION

Typical consumption at 220VAC:
Normal operation: 69W
Max during power up: 86W

DIMENSIONS DCP-1610, INCLUDING SFP+ HOUSING

(HxWxD)
1.73 x 8.07 x 10.63"
44 x 205 x 270mm

ORDERING INFORMATION

Part number	Description
DCP-1610	10 channel, 1G-16Gbps, Transponder, SFP+ to SFP+, PM