

# DCP-101

1ch 100Gbps, QSFP28 to Coherent CFP DWDM transponder, GUI, SNMP, PM



## DCP-101 IN SHORT

- Modular ½ width 1U 100G transponder
- 200G per 1U chassis
- low power consumption (Max 36w per 100G)
- QSFP28 SR4/LR4/AOC/PSM4/CR4-DAC support
- Coherent CFP for metro and long haul DWDM applications
- Comprehensive client and line performance monitoring
- Plug and play operation
- Front to back and back to front airflow
- API, CLI, SNMP, GUI



## DCP-101 VERSATILE 100G TRANSPONDER

DCP-101 is a low power plug and play 100G DWDM transponder. It converts 100G QSFP28 to Coherent CFP for metro, long haul and DWDM applications. Client port is QSFP28 and all transceiver types are accepted including DAC (Direct Attached Copper) cables for ultimate convenience and cost savings when connecting to host equipment. It has a CFP line interface that supports coherent CFPs:

- CFP DWDM for metro and long haul connectivity >1000km

Each DCP-101 unit is a half width 1U module meaning that two DCP-101 modules can fit in to a 1U DCP-2 chassis system providing 200G of connectivity on two DWDM wavelengths.

## TECHNICAL SPECIFICATIONS

### PRODUCT CONFIGURATION

100G Transponder, 100G QSFP28 LAN to CFP WAN uplink

### LINE INTERFACE

Optical line interface: OIF standard based coherent CFP  
 Line rate: 111.81-120.58Gbps  
 DWDM tunability range: ITU-T G.694.1  
 Supports full C-Band tunable DWDM with 50GHz spacing  
 Optical reach: 1200km long haul  
 Dispersion tolerance: 40,000ps/nm  
 OTN Overhead: OTU4/ODU4 OH monitoring  
 Link budget: 19dB (with FEC)  
 OSNR: min = 14dB

### CLIENT INTERFACE

Optical interface: QSFP28  
 DAC cables: 1, 2, 3 & 5m  
 SR4: MM, 100m  
 CWDM4: SM 2km  
 LR4: SM 10km  
 PSM4: SM 10km

### NETWORK MANAGEMENT

Management and console ports  
 4 x RJ45 LAN ports 10/100/1000Base-T  
 1 x SFP LAN port 1000 Base-X  
 1 x RS-232 serial port  
 1 x RJ-45 local host 10/100/1000 Base-T

### MANAGEMENT PROTOCOLS

CLI, GUI, SNMP, HTTP, HTTPS, SSH, Syslog, RADIUS, SNTP, TFTP and FTP Web server application

### ONLINE ACCESS MANAGER (OAM)

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

### VISUAL INDICATORS

Indicator LED:  
 Client link  
 Line link

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

### 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

### DIMENSIONS DCP-101, INCLUDING CFP HOUSING (HxWxD)

1.73 x 8.07 x 10.63"  
 44 x 205 x 270mm

## ORDERING INFORMATION

Part number	Description
DCP-101	1channel, 100Gbps, QSFP28 to Coherent CFP DWDM transponder, GUI, SNMP, PM