

DCP-M40-PAM4-ZR

Multi-format 40 channel DWDM open line system (0-80 km)

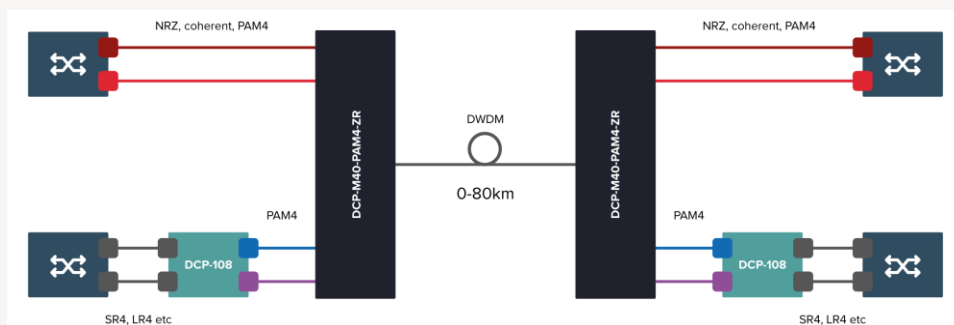


AN OPEN LINE PLATFORM DESIGNED FOR DCI

DCP-M is a true open line DWDM platform designed specifically for modern DCI. DCP-M has the form factor and usability of a passive multiplexer, but unlike a passive multiplexer it monitors the traffic, amplifies the signals for longer distances and can handle higher data rate protocols. DCP-M provides everything required for an open line system and is simple, reliable and open for all DCI protocol types. DCP-M offers an unparalleled level of plug and play simplicity regardless of traffic type and network application. The DCP-M family comprises four models for either 8 or 40 channels, dedicated for either 100G DWDM PAM4 traffic or for applications with any mix of PAM4, NRZ and coherent 100/400G channels.

DCP-M40-PAM4-ZR IN SHORT

- 40 channels active DWDM multiplexer for open line systems
- Accepts any DWDM signal format: PAM4 (40G/100G), NRZ(1-32G), Coherent (QPSK/8QAM/16QAM)
- Up to 80 km of reach for PAM4 modulated signal. Extended reach for other formats.
- Unprecedented level of cost efficiency and ROI for 100G Data Center Interconnect (DCI)
- High speed multi-protocol capability
- Industry defining 1U form factor
- Automated configuration and zero touch provisioning - behaves like a passive multiplexer
- Automatic fiber distance measurement and dispersion compensation
- Modern REST based management architecture with standard and customizable APIs



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. Power levels are automatically regulated and a visual confirmation via LEDs shows that channel and line are set up correctly. 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

| DCP-M Series product codes | |
|----------------------------|---|
| DCP-M40-PAM4-ZR/HW | Base HW, 40 channel DWDM OLS, D921-D960, OSC, 0-80km, PAM4, NRZ, Coherent |
| DCP-M-ENL-6.x_SW | DCP-M Embedded Node Licence for software release 6.x |
| DCP-2-PSU-AC-FB | AC power supply for DCP platform, Front-to-Back airflow |
| DCP-2-PSU-DC-FB | DC power supply for DCP platform, Front-to-Back airflow |
| Spares | |
| DCP-2-FAN-FB | Spare fan unit, Front-to-Back |

TECHNICAL SPECIFICATIONS

PRODUCT CONFIGURATION

40 channel DWDM open line system for metro DWDM, DCI and dark fiber connectivity.

Supported encodings:

- PAM4 (40G/100G) (Maximum 20 x PAM4 signals)
- NRZ (1-32G)
- Coherent (QPSK/8QAM/16QAM)

Supported protocols:

- 1/10/40/100/200/400G Ethernet
- 1/2/4/8/16G Fiber Channel
- Other protocols may be supported, contact Smartoptics for more information.

FRONT SIDE CONNECTIONS

All ports are of LC connector type

40 x DWDM client channels D921 to D960
1 x Line input/output port

VISUAL INDICATORS

Status LED Power & Alarm status
Client LED: 40 x individual client Tx/Rx
Line LED: Line Tx/Rx

REAR SIDE CONNECTIONS

Management and console ports
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

2 x Power supplies: Single/dual feeding. Hot swappable.
1 x Fan unit: Redundant plugin. Hot swappable.

MANAGEMENT PROTOCOLS

SSH/CLI, SNMP, NTP, TFTP, TACACS+, Radius, Syslog
In future release: REST, NetConf

SOFTWARE UPGRADES

Traffic hitless software upgrades

NOTE. THE INFORMATION IN THIS DOCUMENT IS VALID FROM RELEASE R6.0

Subject to change without notice.

For more information visit smartoptics.com.

DIMENSIONS

Size (WxDxH)
440mm x 510mm x 1RU
17.3" x 20" x 1RU
Weight: 13 Kg / 28.7 lbs.

EYE SAFETY

Laser safety class 1M

POWER CONSUMPTION

Typical consumption at 220VAC:
Normal operation: 45W
Max during power up: 65W

AC Fuse: 100-127 VAC (3A)
200-240 VAC (1.5A)

DC Fuse: -40 to -72 VDC (7A)

ENVIRONMENTAL

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

OPTICAL SPECIFICATION

Fiber distance: 0 – 80 km*
Fiber link loss: 0 – 18 dB
Fiber types: G.652 (SMF-28)

* The distance range of 0 – 80 km is only valid for HW revision R2A and later. Older HW support a distance range of 40 – 80 km