

# DCP-M40-PAM4-ER

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

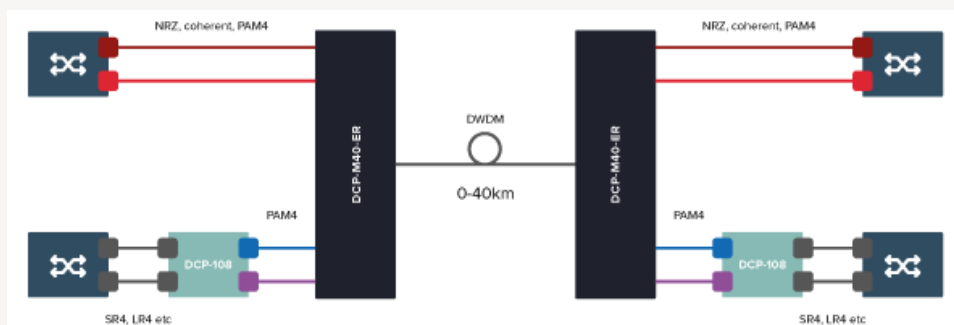


## AN OPEN LINE PLATFORM DESIGNED FOR DCI

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-ER IN SHORT

- 40 channel active DWDM multiplexer for open line systems
- Accepts any DWDM signal format: PAM4 (40G/100G), NRZ(1-32G), Coherent (QPSK/8QAM/16QAM)
- Up to 40 km of reach
- 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-ER/HW         | Base HW, 40ch/100GHz Open Line System, PAM4 0-40km, NRZ/Coh, Ch921-960, OSC, Mux/Demux, EDFA, OCM, OCQ, DCM, 1RU, 19", D=510mm, fans, no PSU |
| DCP-M-ENL-7.x_SW           | DCP-M Embedded Node Licence for software release 7.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)
- NRZ (1-32G)
- Coherent (QPSK/8QAM/16QAM)

#### Supported protocols:

- 1/10/40/100/200/400G Ethernet
- 1/2/4/8/16/32G 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

CLI, SSH, SNMPv2c, SNMPv3  
NTP, SFTP, Syslog, RADIUS, TACACS+

### SOFTWARE UPGRADES

Traffic hitless software upgrades

### 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 – 40 km  
Fiber link loss: 0 – 14 dB  
Fiber types: G.652 (SMF-28)