



DATASHEET

DCP-M8-PAM4

8 channel DWDM PAM4 open line system (0-80 km)

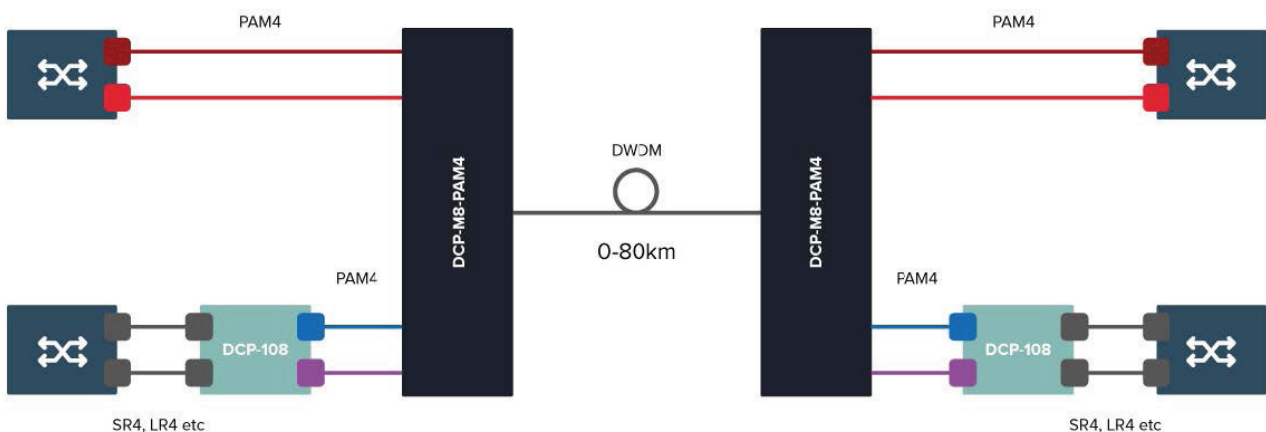


AN OPEN LINE PLATFORM DESIGNED FOR DCI

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-M8-PAM4 IN SHORT

- 8 channel active DWDM multiplexer for open line systems
- Accepts DWDM PAM4 (40G/100G)
- Up to 80 km 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-M8-PAM4/HW	Base HW, 8 channel DWDM OLS, D944-D951, OSC, 0-80km, PAM4
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
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TECHNICAL SPECIFICATIONS

PRODUCT CONFIGURATION 8 channel DWDM open line system for metro DWDM, DCI and dark fiber connectivity.

Supported encodings:

- PAM4 (40G/100G)

Supported protocols:

- 40/100G Ethernet

FRONT SIDE CONNECTIONS All ports are of LC connector type

8 x DWDM client channels D944 to D951

1 x Line input/output port

VISUAL INDICATORS Status LED Power & Alarm status
Client LED: 8 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 – 80 km Fiber link loss: 0 – 18 dB Fiber types: G.652 (SMF-28)

** The information in this document is valid from release R8.1.1