DCP-M40-PAM4-ER+

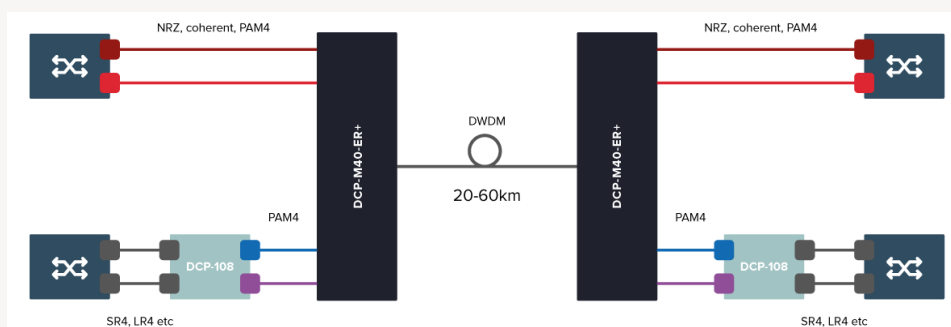## Multi-format 40 channel DWDM open line system (20-60 km)

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)
- Extended reach (20-60 km)
- 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.

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ORDERING INFORMATION

DCP-M Series product codes	
DCP-M40-PAM4-ER+/HW	Base HW, 40 channel DWDM OLS, D921-D960, OSC, 20-55km, 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)
- 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 PROTOCOLS

SSH/CLI, SNMP, REST, NTP, TFTP, Syslog

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:	20 – 55 km
Fiber link loss:	0 – 14 dB
Fiber types:	G.652 (SMF-28)

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

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