

DCP-M40-C-ZR+

40 channel DWDM open line system optimized for coherent services (0-160 km)

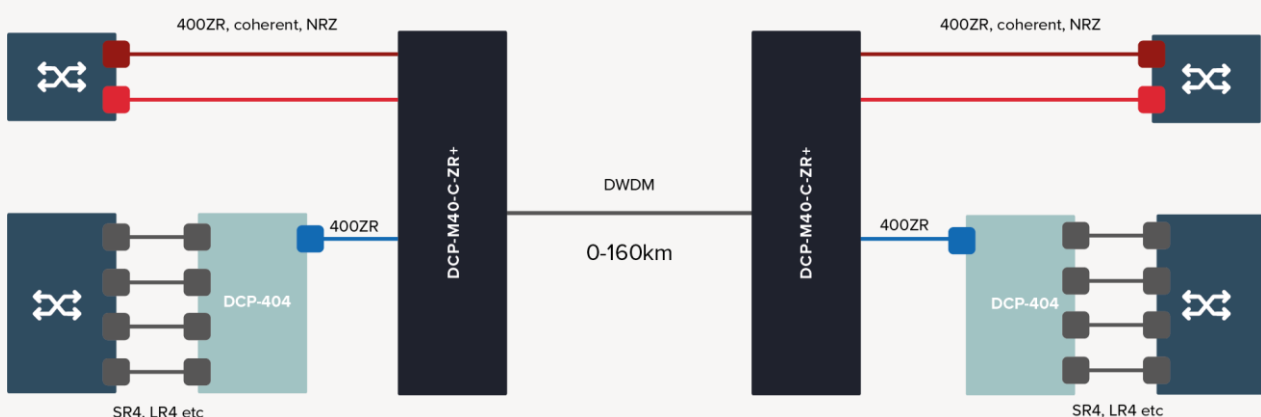


AN OPEN LINE PLATFORM DESIGNED FOR DCI

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 five models for either 8 or 40 channels, dedicated for either 100G DWDM PAM4 traffic, 400ZR traffic or for applications with any mix of PAM4, NRZ and coherent 100/400G channels.

DCP-M40-C-ZR+ IN SHORT

- 40 channels active DWDM multiplexer for open line systems
- Accepts the following DWDM signal format: Coherent (QPSK/8QAM/16QAM) including 400ZR and NRZ (1-10G)
- Up to 160 km of reach depending on modulation format
- Unprecedented level of cost efficiency and ROI for 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
- 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-C-ZR+/HW	Base HW, 40 channel DWDM OLS, D921-D960, OSC, 0-160km, NRZ, Coherent
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:

- NRZ (1-10G)
- Coherent (QPSK/8QAM/16QAM)

Supported protocols:

- 1/10/40/100/200/400G Ethernet
- 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 R7.0

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 1

POWER CONSUMPTION

Typical consumption at 220VAC:

Normal operation: 35 W

Max during power up: 55 W

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 PERFORMANCE

1G – 10G, NRZ

Optics dependant

OIF 400ZR, 400G 16-QAM

Fiber distance: 0 – 120 km

Fiber link loss: 0 – 26 dB

OpenZR+, 400G 16-QAM

Fiber distance: 0 – 140 km

Fiber link loss: 0 – 28 dB

OpenZR+, 300G, 8-QAM

Fiber distance: 0 – 160 km

Fiber link loss: 0 – 31 dB

OpenZR+, 100G & 200G QPSK

Fiber distance: 0 – 160 km

Fiber link loss: 0 – 32 dB