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**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCP-M40-PAM-ER</td>
<td>40 channel DWDM OLS, D921-D960, OSC, 0-40km, PAM4, NRZ, Coherent</td>
</tr>
<tr>
<td>DCP-2-PSU-AC-FB</td>
<td>AC power supply for DCP platform, Front-to-Back airflow</td>
</tr>
<tr>
<td>DCP-2-PSU-DC-FB</td>
<td>DC power supply for DCP platform, Front-to-Back airflow</td>
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**Spares**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>DCP-2-FAN-FB</td>
<td>Spare fan unit, Front-to-Back</td>
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</tbody>
</table>

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

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