

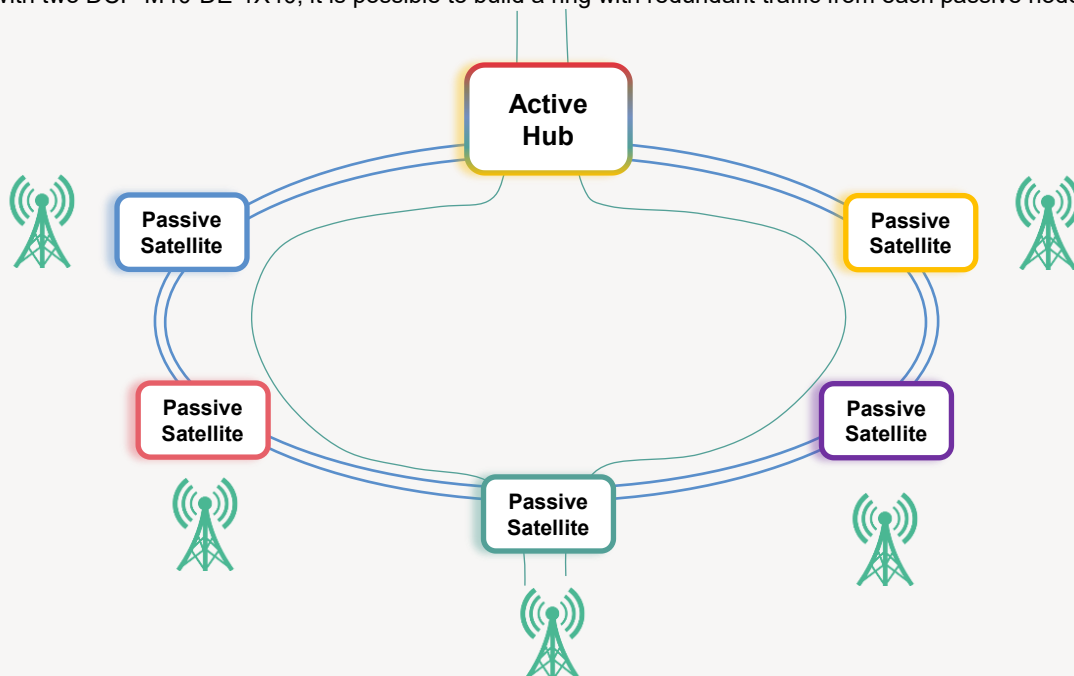
DCP-M40-DE-1X40

40 channel DWDM open line system with dual equalizer

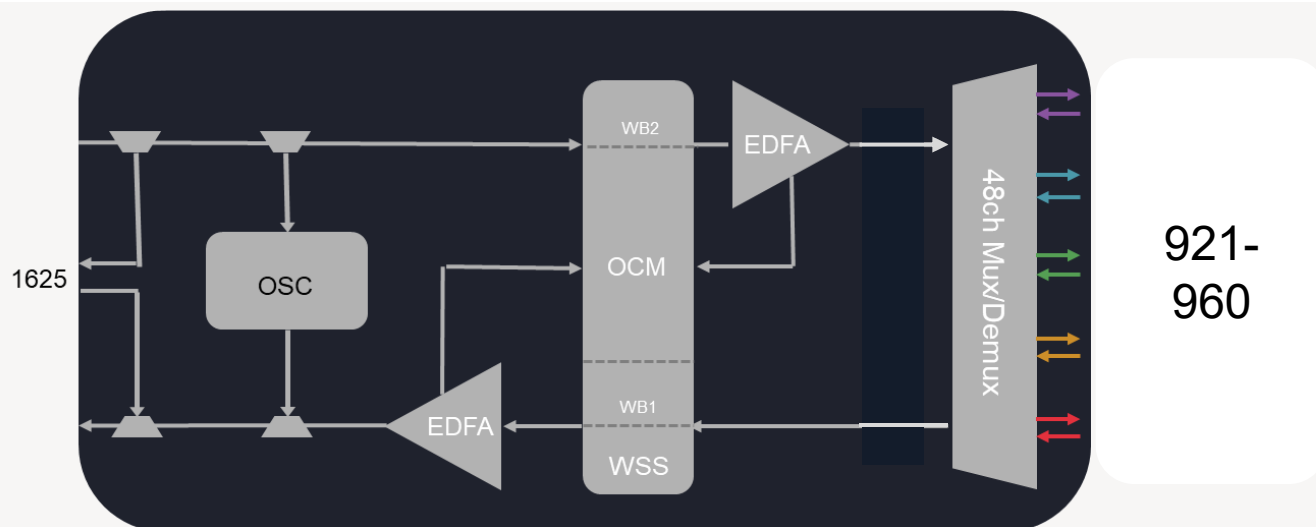


AN OPEN LINE PLATFORM DESIGNED FOR ACTIVE/PASSIVE SOLUTIONS

DCP-M40-DE is a true open line DWDM platform designed specifically for solutions with combined active and passive nodes. The solution typically uses one DCP-M40-DE-1X40 unit in the hub node and then passive DWDM filters in the passive satellite nodes. With two DCP-M40-DE-1X40, it is possible to build a ring with redundant traffic from each passive node to the hub.



One DCP-M40-DE-1X40 unit includes all optics needed for one direction in the hub node. This means that amplifiers, OCM, WSS and filters are included in the 1RU chassis. The dual WSS component allows for automatic power balancing for both outgoing and incoming signals. This means that no individual attenuators are needed in the passive nodes. Having all components inside one 1RU chassis reduces size, power and complexity. The fiber management is limited to external connections since all internal connections are inside the chassis. Optional OSC/OTDR use a pluggable SFP.



DCP-M40-DE-1X40 IN SHORT

- 40 channels active DWDM OLS with dual equalizer for hub locations in active/passive networks. Mux/demux with 80GHz 3dB bandwidth to support 400G signals.
- Accepts any NRZ or coherent DWDM signal format: NRZ(1-25G), Coherent (QPSK/8QAM/16QAM)
- Reach depends on number of passive filter sites, but around 15dB power budget with 5 passive filters.
- Pluggable OSC port for different reach and for OTDR possibility
- OTDR filter port for external 1625nm OTDR sources available on the front
- Industry defining 1U form factor
- Automatic power balancing for both incoming and outgoing signals
- Management support via SNMP and gNMI

ORDERING INFORMATION

DCP-M Series product codes	
DCP-M40-DE-1X40/HW	Base HW, 40ch OLS, DE, 1x40 D921-D960
DCP-M-ENL-12.x_SW	DCP-M Embedded Node Licence for software release 12.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 channels active DWDM OLS with dual equalizer for hub locations in active/passive networks.

Supported encodings:

- NRZ (1-25G)
- Coherent (100-400G, QPSK/8QAM/16QAM)

Supported protocols:

- 1/10/25/100/200/400G Ethernet
- Other protocols may be supported, contact Smartoptics for more information.

FRONT SIDE CONNECTIONS

1 x RS-232 serial port
1 x RJ-45 Local craft 10/100/1000 Base-T
1 x SFP port for OSC/OTDR

All optical ports are of LC connector type
40 x DWDM client channels D921 to D960
1 x Line input/output port
1 x 1510nm OSC port
1 x 1625nm external OTDR port

VISUAL INDICATORS

Status LED Power & Alarm status
Client LED: 40 x individual client Tx/Rx
Line LED: Line Tx/Rx
OSC LED: OSC 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

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+
gNMI

SOFTWARE UPGRADES

Traffic hitless software upgrades

DIMENSIONS

Size (WxDxH)
440mm x 510mm x 1RU
17.3" x 20" x 1RU
Weight: TBD Kg / TBD lbs.

EYE SAFETY

Laser safety class 1

POWER CONSUMPTION

Typical consumption at 220VAC:
Normal operation: TBD W
Max during power up: TBD 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.)

Note. The information in this document is valid from release R12.1.1

Subject to change without notice.

For more information visit smartoptics.com.

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