



DATASHEET

DCP-F-DE22

Dual Equalizer, EDFA amplifier with 22 dB Gain, 2-Port Optical Channel Monitor, 1RU plug-in unit, with support for 2 x Passive Plug-in Modules (PPM's)

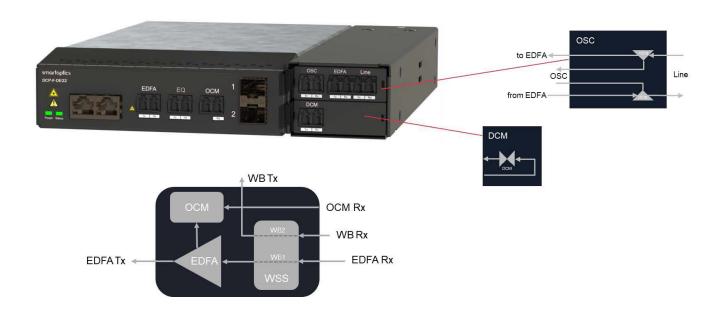


The DCP-F-DE22 is a member of the DCP-F family that is designed for maximum configuration flexibility with the active units available as individual modules plugged directly into the standard Smartoptics DCP-2 chassis, each module occupying one slot. The module also has an integrated expansion field for optional passive plug-in modules (PPM), used for example for dispersion compensation. The small footprint of the DCP-2 chassis and the pluggable configuration allows for excellent flexibility in various applications and in all types of network topologies. By combining one or more DCP-F units they can be used for different types of point-to-point applications, 2-degree ROADM applications and active/passive ring applications.



DCP-F-DE22 IN SHORT

- EDFA Amplifier with an optimum gain of 22 dB
- 2-Port Optical Channel Monitor, one built in and one external
- 2-Port Optical Equalizer, one built in and one external
- Fits into one slot of the DCP-2 chassis
- One unit can equalize two directions when combined with a DCP-F-A22
- Support for 2 x Passive Plug-In modules (PPM)
- · Available PPM modules
 - PPM for dual fiber 1510nm OSC filter (optional)
 - PPM's for 20, 40 & 80 km DCM module (optional)
 - PPM's for 3% & 50% Optical couplers (optional)



ORDERING INFORMATION

DCP Series product codes

DCP-F-DE22 Dual Equalizer, EDFA amplifier, 2-Port OCM, with support for 2 x Passive Plug-in Modules (PPM's),

1RU plug-in unit

TECHNICAL SPECIFICATIONS

PRODUCT CONFIGURATION	Active optical slot-in unit that is used to form an open line system for metro DWDM, DCI and dark fiber
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connectivity.

Supported encodings:

- NRZ (1-16G)

- Coherent (QPSK/8QAM/16QAM)

Supported protocols:

- 1/10/40/100/200/400G Ethernet

- 1/2/4/8/16G Fiber Channel

- Other protocols may be supported, contact Smartoptics for more information.

FRONT SIDE CONNECTIONS All optical ports are of LC connector type

1 x EDFA input/output port

1 x Wavelength Blocker (WB) input/output port

1 x Monitor input port

2 x RJ45 Management ports 10/100/1000 Base-T

2 x SFP Management port 1000 Base-X

VISUAL INDICATORS Status LED Power & Alarm status

Line LED: Line Tx/Rx

REAR SIDE CONNECTIONS Management and console ports (On the DCP-2 chassis)

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

MANAGEMENT PROTOCOLS SSH/CLI, SNMP, NTP, TFTP, TACACS+, Syslog, Radius

In future release: REST, NetConf

SOFTWARE UPGRADES Traffic hitless software upgrades

DIMENSIONS Size (WxDxH)

1.73 x 8.07 x 10.63" 44 x 205 x 270mm **Weight:** 1.8 Kg / 4 lbs

POWER CONSUMPTION Typical consumption at 220VAC:

Normal operation: 40W Max during power up: 45W

ENVIRONMENTAL Operating temp: 0°C to +45°C

Cooling: Front to back Humidity: 5% to 85% Altitude: 3000 m (10.000 ft) **OPTICAL SPECIFICATION** Amplifier:

Maximum total output Power: 20 dBm Gain flattened optimized gain: 22 dB

Settable gain: 20-28 dB

Input power range: -2 to -30 dBm

Noise figure: 5,5 dB Laser Class: 1

WSS resolution: 6,25 GHz (Flexgrid)

WSS Min channel width: 37,5 GHz WSS Min center freq: 191,25 THz WSS Max center freq: 196,125 THz

WSS No channels (50 GHz): 96 (191,35 – 196,10 THz) **WSS No channels (100 GHz):** 48 (191,3 – 196,1 THz)

WSS typical IL EDFA port: $4 \, dB$ WSS typical IL WB port: $4 \, dB$

OCM resolution: 3,125 GHz (Flexgrid)

Power resolution: 0,1 dB

Min detection level (50 GHz): -40 dBm

Accuracy: +/-0,7 dB

Compliant to NEBS Level 3



** The information in this document is valid from release R6.0 $\,$

