

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)

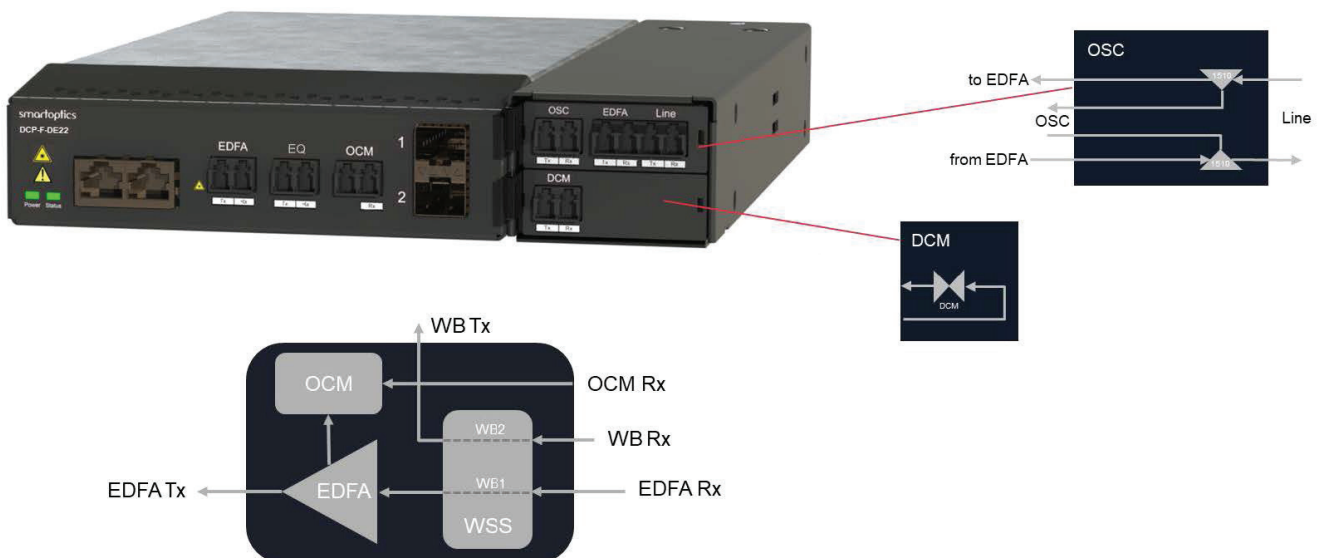
DUAL EQUALIZER WITH EDFA AMPLIFIER AND CHANNEL MONITOR

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	<p>Active optical slot-in unit that is used to form an open line system for metro DWDM, DCI and dark fiber connectivity.</p> <p>Supported encodings:</p> <ul style="list-style-type: none">- NRZ (1-16G)- Coherent (QPSK/8QAM/16QAM) <p>Supported protocols:</p> <ul style="list-style-type: none">- 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	<p>All optical ports are of LC connector type</p> <ul style="list-style-type: none">1 x EDFA input/output port1 x Wavelength Blocker (WB) input/output port1 x Monitor input port <p>2 x RJ45 Management ports 10/100/1000 Base-T 2 x SFP Management port 1000 Base-X</p>
VISUAL INDICATORS	<p>Status LED Power & Alarm status Line LED: Line Tx/Rx</p>
REAR SIDE CONNECTIONS	<p>Management and console ports (On the DCP-2 chassis)</p> <ul style="list-style-type: none">4 x RJ45 management ports 10/100/1000 Base-T1 x SFP management port 1000 Base-X1 x RS-232 serial port1 x RJ-45 local craft 10/100/1000 Base-T
MANAGEMENT PROTOCOLS	<p>SSH/CLI, SNMP, NTP, TFTP, TACACS+, Syslog, Radius</p> <p>In future release: REST, NetConf</p>
SOFTWARE UPGRADES	<p>Traffic hitless software upgrades</p>
DIMENSIONS	<p>Size (WxDxH) 1.73 x 8.07 x 10.63" 44 x 205 x 270mm</p> <p>Weight: 1.8 Kg / 4 lbs</p>
POWER CONSUMPTION	<p>Typical consumption at 220VAC: Normal operation: 40W Max during power up: 45W</p>
ENVIRONMENTAL	<p>Operating temp: 0°C to +45°C Cooling: Front to back Humidity: 5% to 85% Altitude: 3000 m (10.000 ft)</p>

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

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

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