

DATASHEET

DCP-F-R22

2-port ROADM, 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)

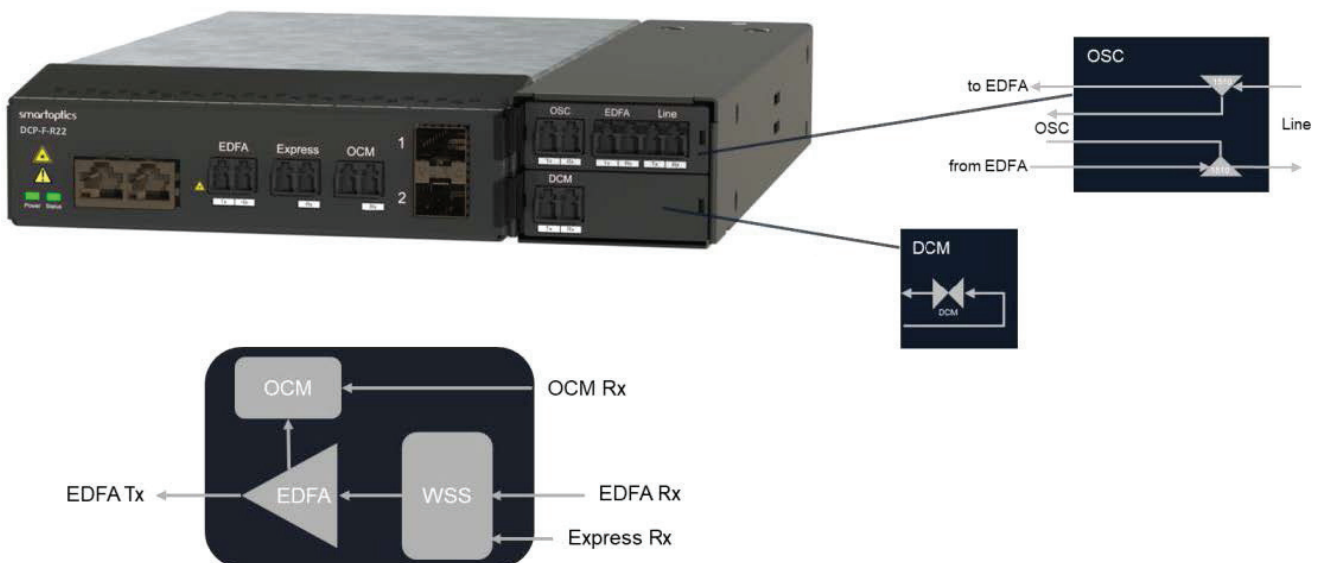
2-ROADM BUILDING BLOCK WITH EDFA AMPLIFIER AND CHANNEL MONITOR

The DCP-F-R22 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-R22 IN SHORT

- EDFA Amplifier with an optimum gain of 22 dB
- 2-Port Optical Channel Monitor
- 2-Degree ROADM (WSS)
- Fits into one slot of the DCP-2 chassis
- One unit used per direction
- Support for 2 x Passive Plug-In modules (PPM)
- Available PPM modules
 - PPM for dual fiber 1510nm OSC filter (optional)
 - PPM's for 40 & 80 km DCM module (optional)
 - PPM's for 2% & 50% Optical couplers (optional)



ORDERING INFORMATION

DCP Series product codes

DCP-F-R22

DCP-Series, 2-port ROADM, EDFA, Equalizer, Passive Plug-in Module (PPM), 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 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 Express input 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: 22-28 dB
Input power range: -2 to -30 dBm
Noise figure: 5,5 dB

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: 5 dB
WSS typical IL Express port: 11 dB

OCM

OCM resolution: 3,125 GHz (Flexgrid)
Power resolution: 0,1 dB
Min detection level (50 GHz): -40 dBm
Accuracy: +/-0,7 dB

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