

DATASHEET 1.0

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)

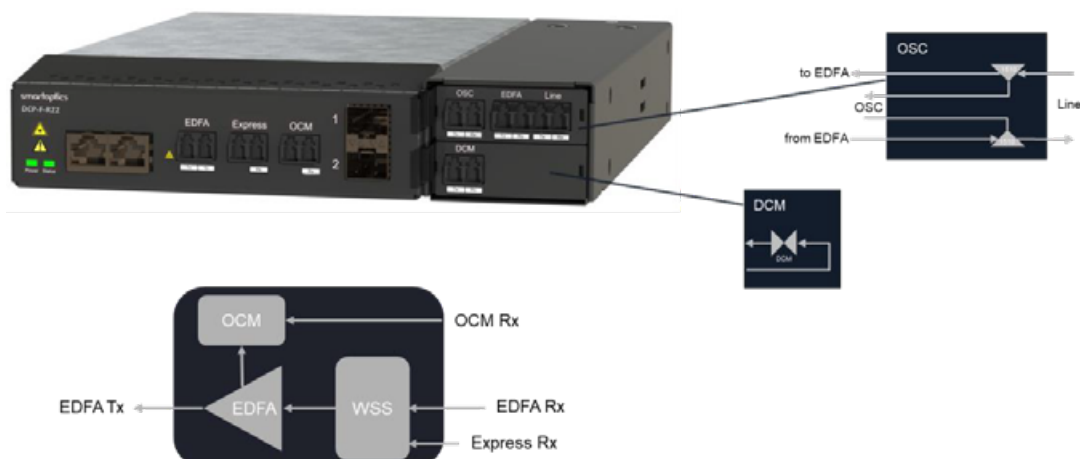


2-ROADM BUILDING BLOCK WITH EDFA AMPLIFIER AND CHANNEL MONITOR

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
 - o PPM for dual fiber 1510nm OSC filter (optional)
 - o PPM's for 40 & 80 km DCM module (optional)
 - o PPM's for 2% & 50% Optical couplers (optional)



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:	30W
	Max during power up:	35W
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
	Monitor port ratio:	1% (20 dB)
	WSS:	
	WSS resolution:	6,25 GHz (Flexgrid)
	WSS Min channel width:	37,5 GHz
	WSS Min center freq:	191,25 THz
	WSS Min 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

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

ORDERING INFORMATION

DCP Series product codes	Description
DCP-F-R22	DCP-Series, 2-port ROADM, EDFA, Equalizer, Passive Plug-in Module (PPM), 1RU plug-in unit