

BC Series Modular Fibre Optic Interface System



BC2x1SW **Optical Switch for Diverse Routing**

The BC2x1SW is an optical switch designed to offer system designers increased flexibility in their fibre installations. Two separate optical inputs A and B are fed into the single slot BC Series card.

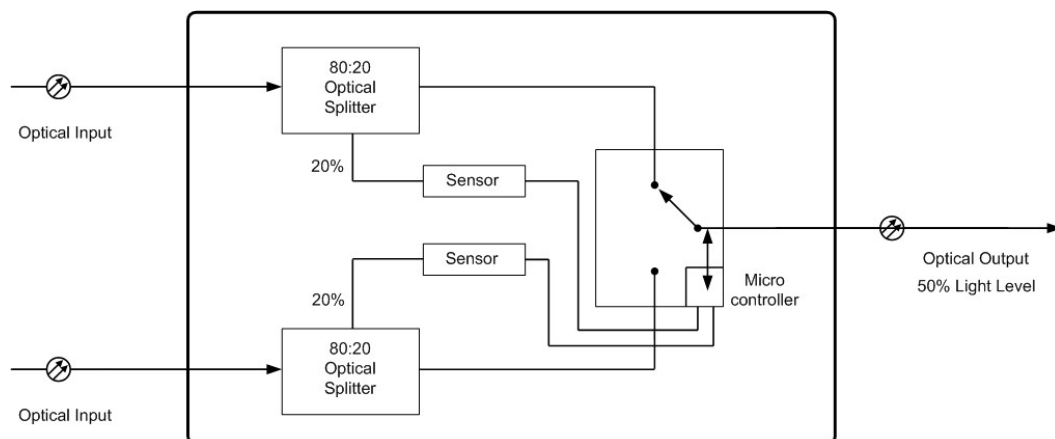
Internal logic on the card senses the light levels of the inputs and will switch from a main to reserve path in the event of signal loss. By routing two separate diverse fibres to the A and B inputs automatic switchover will occur in the event of a failure in the transmission path caused by a faulty fibre or connector.

The sensitivities at which the changeover occurs can be user defined to suit the installation increasing user confidence.

A BCSPLIT is used upstream to provide a 50:50 optical feed to the separate optical fibres. Passive splitters can be provided with different ratios of output light levels.

The BC2x1SW occupies a single slot in any of the BC Series 19" rack-mounting frames.

For stand alone applications the BC2x1SW can be housed in an individual rugged enclosure.



Schematic Diagram BC2x1SW

Rear Panel



Specifications

Optical Input

Connector	1 x female FC/PC, ST or SC See Ordering Information
Wavelength	1200-1610 nm
Sensitivity	> -20 dBm @ 1.485 Mb/s > -25 dBm @ 270 Mb/s
Max I/P power	> -1 dBm
Data rate	Transparent

Optical Output

Connector	1 x female FC/PC, ST or SC See Ordering Information
Wavelength	1310 nm, 1550 nm See Ordering Information
Optical Power	-14 dBm @ 850 nm -6 dBm @ 1310 nm -6 dBm @ 1510 nm
No. of slots	1

General card specifications

Depth	60 mm
Width	20 mm 4TE
Height	100 mm (3RU)
Weight	100 g
Operating Temp	-30 to +70 °C
Power	2.2 W
Signal detect	LED on for loss of signal

Conformance

EMI/RFI	Complies with 89/336/EEC
Electrical	Complies with EN 61000-6-1, EN61000-6-2
Laser Safety	Complies with Class 1 laser product 24 CFR 1040.10 & 1040.11
RoHS	Complies with Directive 2002/95/EC
Warranty	5 years

Ordering Information

BC2x1SW 2 input, 1 output optical switch

The standard connector used is FC/PC. Contact the Sales Office for alternatives.

Universal Chassis and Power Supplies

BC100-3RU	19" 3RU Chassis for up to 15 BCxxx Cards with optional Network Monitoring and facility for Dual Redundant Power Supplies (not supplied).
BC100-3RU/48V	19" 3RU Chassis for up to 15 BCxxx Cards with optional Network Monitoring and facility for Dual Redundant Power Supplies (not supplied). Fitted with 48V dc input.
BM100	Network Monitoring Card with GPI Output on a SCSI Connector for Slot-16
BM101	Network Monitoring Card with Ethernet connection for Slot-16
BC140	Extender Card for BC100 3RU Chassis
PS65	90-250VAC Power Supply for BC100-3RU or BB100-3RU Chassis
BC160	19" 1RU Chassis for up to 6 BCxxx Cards. Includes Dual Redundant Power Supplies.
BC110	Single Slot Chassis with Universal Mains Power Supply
BC120	Triple Slot Chassis with Universal Mains Power Supply