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SelfAlign™ Series of NxM Fiber Optic Switches (bidirectional)

(Protected by U.S. patents 7224860, 6757101, 6577430 and pending patents)

Product Description

The SelfAlign Series of optical fiber switch is based on a patent pending self-groove alignment mechanism without the need for AR coating and lenses. It offers unparalleled advantages of very low loss of about 1dB for any array size, and low cost, amicable to any fiber core size, and broad wavelength operation from 300nm-2300nm. The SelfAlign Series of optical fiber switch is compliant with the Telcordia 1209 and 1221 reliability standards. The driving circuit is embedded in the package and is connected through RS232, RS485, or RJ45 interface.

The SelfAlign optical fiber switch is suitable for multiple channel signal monitoring and wavelength management in NxN, MxN and NxM (N,M≤48) configurations.



Features

- Low Cost
- High Reliability
- Low Insertion Loss
- Broad Band
- Compact Design
- Low Power Switch

Performance Specifications

SelfAlign™ Series Switch	Min	Typical	Max	Unit
Operation Wavelength	400	1260-1650	1800	nm
Insertion Loss ^[1]		1	2.0	dB
Cross Talk	55	60		dB
Switch Speed (Rise, Fall)			1000	ms
Durability	10 ⁷			cycle
Polarization Dependent Loss		0.04	0.2	dB
Wavelength Dependence Loss ^[2]		0.1	0.3	dB
Return Loss	45			dB
Repeatability		0.1	0.3	dB
Operation Voltage ^[3]			12	V
Power Consumption ^[4]	0.7	3.6	5	W
Operating Temperature ^[5]	-5		65	°C
Optical Power Handling ^[6]		300	500 ^[6]	mW
Storage Temperature	-40		85	°C
Switch type	Non-Latching/Latching			
Package Dimension	Connector dependent W/LC=2RU/96 Ports			

1. Measured without connectors
2. Within 50nm bandwidth
3. Other voltage options also available
4. Consume minimum power during sleep time, latching switch type only
5. -25 °C-75°C version is also available.
6. High power version available

Applications

- Optical Signal Routing
- Network Protection
- Wavelength Management
- Signal Monitoring
- Instrumentation

SelfAlign™ NxM Fiber Optic Switch

Switching Module Mechanical Dimensions (mm)

The switch module is mounted inside a standard rack box with fiber optic connectors of customer choice and back electrical power input and control interfaces. The height of the box is determined by the port count and connector type.

*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Electrical Specification

- RS 232/ RS 485
- Ethernet 10/100 with definable IP address
- CLI
- GUI
- 48V/120-220V Power Input
- USB

Graphic Interface

Per customer request

Ordering Information

SANM-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Type	Wavelength	Switch Type	Package	Fiber Type	Power Monitor	Connector		
16x16=1616	1060=1	Latching =1	Standard=1	SMF-28 =1	Input =1	None=1		
24x24=2424	1310=3	Non-latching=0	Special=0	MM 50/125=2	Output=3	FC/PC=2		
32x32=3232	1410=4			MM 62.5/125=3	Input/Output=2	FC/APC=3		
48x48=4848	1550=5			PM 405=4	No =0	SC/PC=4		
64x64=6464	1310/1550=2			PM 350=5		SC/APC=5		
80x80=8080	650=6			PM 780=7		ST/PC=6		
96x96=9696	780=7			Special=0		LC=7		
128x128=1282	850=8					Duplex LC=8		
144x144=1442	Special=0					Quad LC=9		
192x192=1922						Special=0		
250x250=2502								
Special=0000								