

# LightBend™ 1xN Fiber Optic Switch Module

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

## Product Description

The 1xN Series optical fiber switch is based on precise groove alignment mechanism featuring low cost, compact design, simple construction, easy drive, and excellent optical performance for any wavelength between 400nm-1800nm. The 1xN series optical fiber switch is compliant with the Telcordia 1209 and 1221 reliability standards. The driving circuit is embedded in the package and is connected to computer through RS232, RS485, or RJ45 interface.

The 1xN optical fiber switch is suitable for multiple channel signal monitoring and wavelength management.



## Features

- Low Cost
- High Reliability
- Low Insertion Loss
- Broad Band
- Compact Design
- Direct Low Voltage Drive

## Performance Specifications

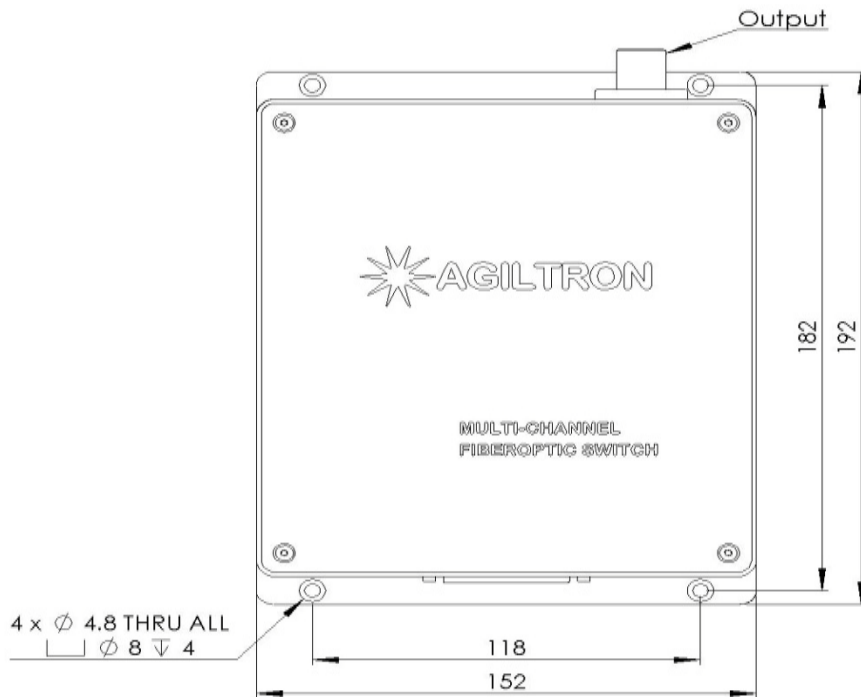
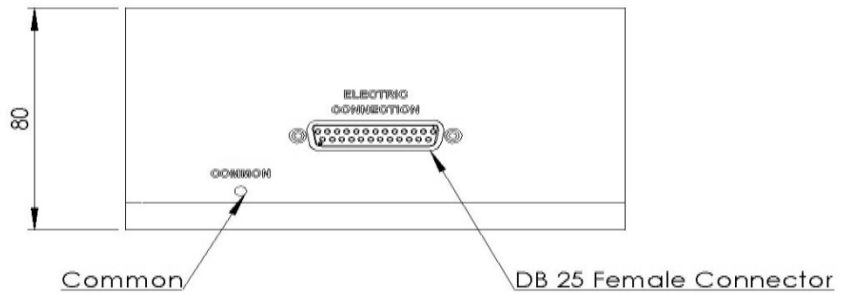
LB Series 1xN Switch	Min	Typical	Max	Unit
Operation Wavelength	400		1800	nm
Insertion Loss <sup>1</sup>			2.0	dB
Cross Talk	50			dB
Switch Speed (Rise, Fall)			1000	ms
Durability	10 <sup>7</sup>			cycle
Polarization Dependent Loss		0.05	0.4	dB
Wavelength Dependence Loss <sup>2</sup>		0.2	0.5	dB
Return Loss	45			dB
Repeatability			0.3	dB
Input Power			5	W
Operation Voltage <sup>3</sup>			12	V
Operating Temperature <sup>4</sup>	-5		65	°C
Optical Power Handling <sup>5</sup>		300	500 <sup>6</sup>	mW
Storage Temperature	-40		85	°C
Switch type	Non-Latching			
Fiber Type	Corning SMF28			
Package Dimension	152L x 192W x 80H			mm

1. Measured without connectors
2. Within 50nm bandwidth
3. Other voltage requirements also available
4. -25 °C version is also available.
5. High power version available

## Applications

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

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## Ordering Information

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Type	Wavelength	Switch Type	Package	Fiber Type	Fiber Length	Connector			
1x8=08	1060=1		Standard=2	SMF-28 =1	Bare fiber=1	0.25m=1			
1x16=16	1310=3		Special=0	MM	900µm loose tube=3	0.5m=2			
1x32=32	1410=4			50/125=2	Special=0	1.0m=3			
1x64=64	1550=5			MM		Special=0			
1x128=1	1310/1550=2			62.5/125=					
28	650=6			3					
Special=	780=7			Special=0					
00	850=8								
	Special=0								
						None=1			
						FC/PC=2			
						FC/APC=3			
						SC/PC=4			
						SC/APC=5			
						ST/PC=6			
						LC=7			
						Duplex LC=8			
						Special=0			