



LightBend™ 16x16 Single Mode Fiber Switch Matrix

Product Description

The LB Series 16x16 Single Mode Optic Switch Matrix connects optical channels by redirecting incoming optical signals into any output fibers. This is achieved using a patent pending opto-mechanical configuration and activated via an electrical control signal. Latching operation preserves the selected optical path after the drive signal has been removed. This new material-based advanced design significantly reduces moving part position sensitivity, offering unprecedented high stability as well as an unmatched low cost. The switch is bidirectional.

Performance Specifications

LB 16x16 SM Switch	Min	Typical	Max	Unit
Operation Wavelength		1550		nm
Insertion Loss ^[1]		2.0	3.2	dB
Polarization Dependent Loss			0.2	dB
Polarization Mode Dispersion			0.1	ps
Switching speed		10	15	ms
Return Loss	50			dB
Cross Talk	50			dB
Repeatability			± 0.2	dB
Durability	10 ⁷			Cycle
Switching Type		Latching/Non-Latching		
Operating Temperature	0		65	°C
Optical Power Handling		300	500	mW
Storage Temperature	-40		85	°C
Fiber Type		SMF-28 fiber		
[1]: Exclude adaptors				
Electronic Interface		RS232/USB ^[2]		
Power Supply		100-240		VAC
Mounting		19" Rack		

[2]: LAN available per request

Features

- Non-blocking
- High Isolation
- Low Cost

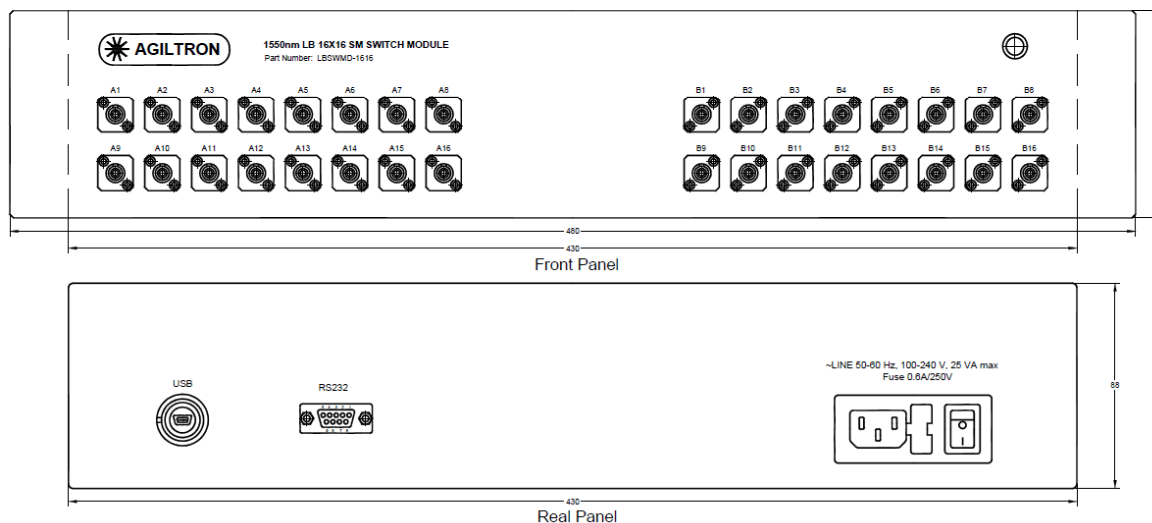
Applications

- Channel Routing
- Configurable Add/Drop
- System Monitoring
- Instrumentation



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Mechanical Drawing (Unit: mm)



Ordering Information

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	Type	Wavelength	Switching Type	Package Type	Fiber Type	Fiber Length	Adaptor	
	16x16=1616	1550nm=5	Latching=1 Non-Latching=3	19"/2U=2	SMF-28=1	900um loose tube=3	1m=1	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Duplex LC=8 Special=0