FTBx-9160 MEMS Optical Switch



Provides highly accurate and repeatable fiber-to-fiber switching.

KEY FEATURES

Singlemode 1 x N up to 1 x 32

Fast switching time of \leq 30 ms

Lifetime expectancy of more than 1 x 10⁹ cycles

Variety of connector options

COMPATIBLE PRODUCTS AND ACCESSORIES



Rackmount Platform LTB-8



Variable Attenuator FTBx-3500



Multi-User Interface EXFO Multilink



MEMS-BASED DESIGN

With its MEMS-based design, EXFO's FTBx-9160 delivers durable performance in a compact package. Fast switching time and a 1-billion-cycle lifetime expectancy make it the perfect optical switch for demanding manufacturing applications. The FTBx-9160 MEMS Optical Switch is available for singlemode fibers with a choice of 1 x 2, 1 x 4, 1 x 8, 1 x 12, 1 x 16, 1 x 24 and 1 x 32 modules.

1 x 2	1 x N
1 x 8 1 x 12	common
1 x 16 1 x 24 1 x 32	

The 1 x N configurations provide precise optical switching between one common port and N input/output ports-perfect for multiple-component or ribbon-fiber testing.

SUPPORTING VARIOUS APPLICATIONS

Optical switches are basic components integrated in almost every test station. The FTBx-9160 offers the specifications and features to support a wide variety of applications. Choose it to:

- > Analyze transmitted signals using several types of test instruments, such as an optical spectrum analyzer and a bit-error-rate tester
- > Reconfigure an R&D or manufacturing test station to allow testing of several types of devices
- > Test multiple devices under test (DUTs) in parallel



LTB-8 PLATFORM

The LTB-8 is a highly scalable and compact platform featuring the industry's best 100G port density and hot-swap capabilities for no downtime or interruption in tests, and greatly improved efficiency.

The FTBx-9160 can be easily remote-controlled by means of the standard LAN or optimal GPIB interface using SPCI commands, IVI drivers or any other automation software.





光技術をサポートする <u>株式会社オプトサイエンス</u> http://www.optoscience.com

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SPECIFICATIONS [®]									
Switch	1 x 2, 1 x 4	1 x 8	1 x 12	1 x 16	1 x 24, 1 x 32				
Operating wavelength (nm)	1290 to 1650								
Insertion loss (dB) at 1310 nm ^{b, c}	0.9	1.2	1.6	1.8	2.0				
Insertion loss (dB) at 1530 nm to 1650 nm ^{b, c}	0.7	1.0	1.2	1.4	1.5				
Repeatability (dB) ^d	0.02								
Backreflection (dB) (typical)	-50 (-55)								
Crosstalk (dB) (typical)	50 (60)								
Polarization-dependent loss (dB) (typical) °		0.09 (0.06) 0.11 (0.08)		(0.08)					
Switching time (ms) °	20		3	0					
Fiber type	Singlemode 9/125 μm								
Input power (damage threshold) (dBm)	27								

GENERAL SPECIFICATIONS									
Switch	1 x 2, 1 x 4	1 x 8	1 x 12	1 x 16, 1 x 24	1 x 32				
Number of slots	1	2	3	4	4				
Dimensions Height Width Depth	25 mm (1 in) 159 mm (6 ¹ ⁄4 in) 185 mm (6 ⁷ ⁄8 in)	50 mm (2 in) 159 mm (6 ¼ in) 185 mm (6 % in	75 mm (3 in) 159 mm (6 ¼ in) 185 mm (6 % in)	100 mm (4 in) 159 mm (6 ¼ in) 185 mm (6 % in)	100 mm (4 in) 159 mm (6 ¼ in) 185 mm (6 % in)				
Switch life	1 billion (10 ⁹) cycles minimum								
Temperature Operating Storage	0 °C to 40 °C (32 °F to 104 °F) −40 °C to 70 °C (−40 °F to 158 °F)								
Maximum relative humidity	80 % non-condensing at 40 °C								
Instrument Drivers IVI drivers and SCPI commands.									
Remote Control With LTB-8 and Ethernet.									
Standard Accessories									

User guide, certificate of compliance and calibration certificate.

Notes

a. Specifications valid at 23 °C \pm 5 °C.

b. Insertion losss per module, including one connector.

c. Typical specifications.

d. Repeatability values are for 100 cycles per switch module at constant temperature with stabilized source/meter.

e. At 1550 nm.





Notes

a. For 2 x N and multimode configurations, please refer to the FTBx-9150 ordering information.

b. Not available for 1 x 32 switches.

c. Available for 1 x 32 switches only.

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