FTBx-9150 Optical Switch



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

KEY FEATURES

1 x 2, 1 x 4, 1 x 8, 1 x 12, 1 x 16, 1 x 24, 1 x 32, 2 x 2, 2 x 4

Singlemode and multimode

High performance

Variety of connector options

RELATED PRODUCTS AND ACCESSORIES



Rackmount Platform

LTB-8



Power Meter FTBx-1750



Multi-User Interface EXFO Multilink

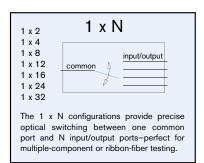


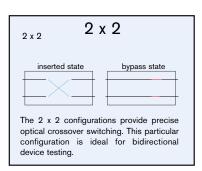
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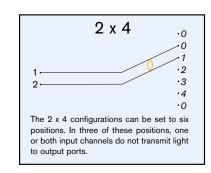


THE OPTICAL SWITCHING SOLUTION

The FTBx-9150 Optical Switch series provides highly accurate and repeatable fiber-to-fiber switching. As part of the LTB-8-based test systems, the FTBx-9150 Optical Switch offers a choice of 1 x 2, 1 x 4, 1 x 8, 1 x 12, 1 x 16, 1 x 24, 1 x 32, 2 x 2 and 2 x 4 modules. Designed for minimal reflectance, the switches integrate precision optical components into a compact modular package. Both singlemode and multimode versions are available and offer a solution for all your optical switching needs.







SUPPORTING VARIOUS APPLICATIONS

Optical switches are basic components integrated into almost every test station. The FTBx-9150 offers specifications and features to support a wide variety of applications:

- > Multiple component testing
- > Bidirectional testing
- > Automated testing
- Remote testing
- > Signal monitoring
- > Equipment sharing

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-9150 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.





SPECIFICATIONS a												
Model	1 x 2		1 x 4, 1 x 8, 1 x 12, 1 x 16, 1 x 24, 1 x 32, 2 x 4 b		2 x 2							
Mode	Singlemode	Multimode	Singlemode	Multimode	Singlemode	Multimode						
Insertion loss ^c (dB) typical maximum	0.5 1.5	0.5 1.5	0.7 1.7	0.5 1.7	0.8 1.5	0.5 1.5						
Backreflection d (dB) maximum	-55	-24	-55	-24	-55	-24						
Repeatability e (dB) maximum	±0.01	±0.01	±0.03	±0.03	±0.01	±0.01						
Operating wavelengths (nm)	1290 to 1650	780 to 1350	1290 to 1650	780 to 1350	1290 to 1650	780 to 1350						
Polarization-dependent loss ^f (dB) typical standard maximum	≤0.05 0.10	- -	≤0.05 0.10	- -	≤0.05 0.10	- -						
Maximum input power (dBm)	+24	+24	+24	+24	+24	+24						
Switching time (ms)	25	25	25 per channel +	425 (debouncing)	25	25						
Number of channels	1 x 2	1 x 2	1 x 4, 1 x 8, 1 x 12, 1 x 16, 1 x 24, 1 x 32		2 x 2	2 x 2						
Crosstalk (dB)	-80	-80	-80	-80	-80	-80						

GENERAL SPECIFICATIONS									
Switch		1 x 2	1 x 4	1 x 8	1 x 12, 1 x 16	1 x 24, 1 x 32	2 x 2	2 x 4	
Number of slots		1	2	3	4	4	1	2	
Dimensions	height width depth	25 mm (1 in) 159 mm (6 ¼ in) 185 mm (7 5/16 in)	50 mm (2 in) 159 mm (6 ½ in) 185 mm (7 ½ in)	75 mm (3 in) 159 mm (6 ½ in) 185 mm (7 ½ in)	100 mm (4 in) 159 mm (6 ¼ in) 185 mm (7 5/16 in)	100 mm (4 in) 159 mm (6 ¼ in) 185 mm (7 5/16 in)	25 mm (1 in) 159 mm (6 ½ in) 185 mm (7 ½ in)	50 mm (2 in) 159 mm (6 ¼ in) 185 mm (7 5/16 in)	
Switch life		10 million cycles minimum							
Temperature	operating storage	10 °C to 40 °C (50 °F to 104 °F) -20 °C to 60 °C (-4 °F to 140 °F)							
Relative humid	dity maximum			80 %	non-condensing at 4	0 °C			

Instruments Drivers

IVI drivers and SCPI commands

Remote Control

With LTB-8 and Ethernet

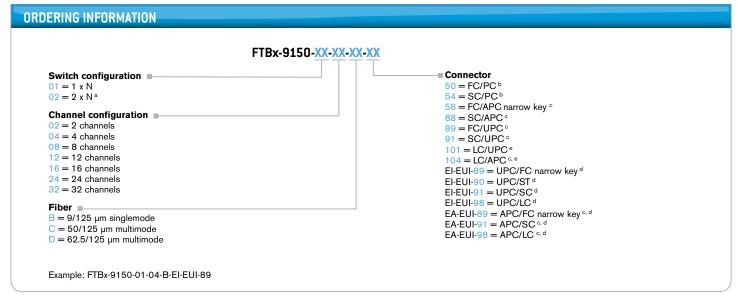
Standards Accessories

User guide and certificate of compliance

Notes

- a. Specifications valid at 23 °C \pm 5 °C.
- b. Non-blocking
- c. Insertion loss per module, excluding connectors, measured at singlemode wavelengths of 1310 and 1550 nm, and multimode wavelength of 850 nm.
- d. Backreflection is measured at singlemode wavelengths of 1310 and 1550 nm, with APC connectors, and multimode wavelength of 850 nm with UPC connectors.
- e. Repeatability values are for 200 cycles per switch module at constant temperature with stabilized source/meter at singlemode wavelengths of 1310 and 1550 nm, and multimode wavelengths of 850 and 1300 nm.
- f. Measured at 1550 nm.





Notes

- a. $2 \times N$ configurations available only with 2- and 4-channel options.
- b. Multimode only.
- d. Available on 1 x 2, 1 x 4, 1 x 8, 1 x 12, 1 x 16, 2 x 2 and 2 x 4 switches.
- e. Available for 1 x 24 and 1 x 32 switches.

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