FTBx-9110 MEMS optical switch

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

KEY FEATURES

Singlemode 1 x N up to 1 x 12

Fast switching time of ≤30 ms

Lifetime expectancy of more than 1×10^9 cycles

Variety of connector options

RELATED PRODUCTS AND ACCESSORIES

Rackmount platform
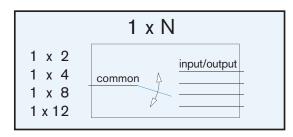LTB-12

Variable attenuator
FTBx-3500

Optical light source
FTBx-2150

EXFO

MEMS-BASED DESIGN

With its MEMS-based design, EXFO's FTBx-9110 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-9110 MEMS optical switch is available for singlemode fibers with a choice of 1 x 2, 1 x 4, 1 x 8 and 1 x 12 modules.

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-9110 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

LABORATORY PLATFORMS

EXFO laboratory platforms are highly scalable and feature the industry's best 100G port density and hot-swap capabilities for no downtime or interruption in tests, and greatly improved efficiency.

The FTBx-9110 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.

EXFO

SPECIFICATIONS [a]

Switch	1 x 2	1 x 4	1 x 8	1 x 12
Operating wavelength (nm)	1260 to 1650			
Insertion loss (dB) (typical) [b]	1.45 (0.9)	1.45 (0.9)	1.75 (1.2)	2.15 (1.6)
Repeatability (dB) [c]	±0.02 or 0.04			
Backreflection (dB) [d]	−50			
Crosstalk (dB) (typical)	50 (60)			
Polarization-dependent loss (dB) [d, e]	0.15			
Switching time (ms) [d]	<30			
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
Number of slots	1
Size (H x W x D)	25 mm x 159 mm x 185 mm (1 in x 6 ¼ in x 7 ⁵⁄₁₆ in)
Switch life	1 billion (10^9) cycles minimum
Temperature Operating	0 °C to 40 °C (32 °F to 104 °F)
Storage	−40 °C to 70 °C (−40 °F to 158 °F)
Maximum relative humidity	80 % non-condensing at 40 °C

Instrument drivers
IVI drivers, SCPI commands and REST API.

Remote control
With LTB-2, LTB-8 and LTB-12 and Ethernet.

Standard accessories
User guide[f] and test report.

a. Specifications valid at 23 °C ± 2 °C.
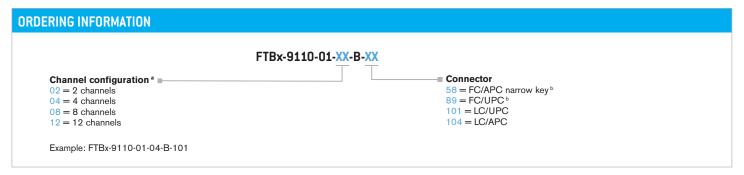b. Insertion loss per module, including one connector.
c. Repeatability values are for 100 cycles per switch module at constant temperature with stabilized source/meter.
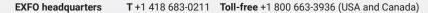d. Typical specifications.
e. At 1550 nm.
f. Available online only.

EXFO

ORDERING INFORMATION

FTBx-9110-01-XX-B-XX

Channel configuration [a]
02 = 2 channels
04 = 4 channels
08 = 8 channels
12 = 12 channels

Connector
58 = FC/APC narrow key [b]
89 = FC/UPC [b]
101 = LC/UPC
104 = LC/APC

Example: FTBx-9110-01-04-B-101

a. For 2 x N and multimode configurations, please refer to the FTBx-9150 ordering information.
b. FC connectors are available for 2 and 4 channels configuration only.

EXFO headquarters   **T** +1 418 683-0211   **Toll-free** +1 800 663-3936 (USA and Canada)

EXFO serves over 2000 customers in more than 100 countries. To find your local office contact details, please go to **www.EXFO.com/contact**.

EXFO