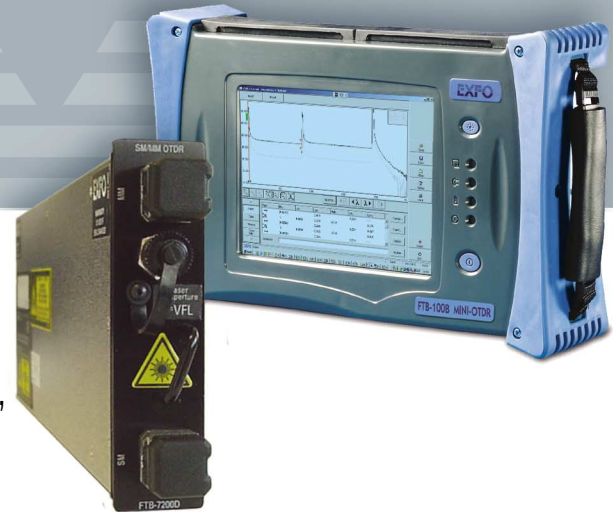


7200D

NETWORK TESTING

PREMISES NETWORK OTDR

FTB-7200D



The FTB-7200D-12CD-23B four-wavelength model: first-class features for singlemode/multimode OTDR testing

- Four wavelengths and optional visual fault locator (VFL), for top flexibility and cost-effectiveness
- 850, 1300, 1310 and 1550 nm wavelengths with respective dynamic ranges of 26, 25, 35 and 34 dB
- Shortest dead zones in the industry: event dead zone of ≤ 1 m, and attenuation dead zone of ≤ 4.5 m—for both singlemode and multimode fiber
- Controlled launch conditions, for more accurate loss measurements
- A single module for optimized testing on both 50 μm and 62.5 μm multimode fiber
- Designed for real-life applications: characterizes the high reflectance of field-installed connectors

Extra flexible. More accurate. Made to perform.

Introducing the FTB-7200D-12CD-23B Premises Network OTDR, a single-slot module that combines singlemode and multimode fiber test functionalities. Housed in either of EXFO's portable test platforms, the FTB-400 Universal Test System and FTB-100B Mini-OTDR, this module features four wavelengths and an optional visual fault locator (VFL).

With its unrivalled dead zones, high dynamic ranges and great all-around specifications, the FTB-7200D-12CD-23B provides pinpoint measurements—what you need for highly efficient multimode/singlemode OTDR performance.

SPECIFICATIONS¹

All specifications below apply to the FTB-7200D-12CD-23B four-wavelength multimode (MM)/singlemode (SM) model.

Model	Wavelength (nm)	Dynamic range ^{2,3} (dB)	Event dead zone ⁴ (m)	Attenuation dead zone ⁴ (m)
FTB-7200D-12CD-23B	850 ± 20/1300 ± 20 1310 ± 20/1550 ± 20	26/25 35/34	1/1 1/1	3/4.5 4/4
Distance range (km)	Multimode: 0.10, 0.3, 0.50, 1.3, 2.5, 5, 10, 20, 40 Singlemode: 1.3, 2.5, 5, 10, 20, 40, 80, 160, 260			
Pulse width (ns)	Multimode: 5, 10, 30, 100, 275, 1000 Singlemode: 5, 10, 30, 100, 275, 1000, 2500, 10 000, 20 000			
Launch conditions ⁵	Class CPR 1 or 2.			
Linearity (dB/dB)	± 0.03			
Loss threshold (dB)	0.01			
Loss resolution (dB)	0.001			
Sampling resolution (m)	Multimode: 0.04 to 2.5 Singlemode: 0.04 to 5			
Sampling points	Up to 128 000			
Distance uncertainty ⁶ (m)	± (0.75 + 0.0025 % x distance)			
Measurement time	User-defined (60 min maximum)			
Real-time refresh (s)	Guaranteed: ≤ 0.4			
Stable source output power ⁷ (dBm)	-1.5 (1300 nm), -8 (1550 nm)			
Visual fault locator (optional)	Laser, 650 nm ± 10 nm CW, P _{out} maximum: ≤ 5 mW (multimode) CW, P _{out} maximum: ≤ 1 mW (singlemode)			

Notes

- All specifications valid at 23 °C ± 2 °C (73.4 °F ± 3.6 °F) with an FC/PC connector, unless otherwise specified.
- Typical dynamic range with longest pulse for a 45-second averaging at SNR = 1 (typical dynamic range with three-minute averaging will be 1 dB higher).
- Multimode dynamic range is specified for 62.5 μm fiber; a 3 dB reduction is seen when testing 50 μm fiber.
- Typical dead zone for multimode reflectance below -35 dB and singlemode reflectance below -45 dB, using a 5 ns pulse.
- Controlled launch conditions allow 50 μm and 62.5 μm multimode fiber testing.
- Does not include uncertainty due to fiber index and sampling resolution.
- Typical output power is given at 1300 nm for multimode output and 1550 nm for singlemode output.

LASER SAFETY



21 CFR 1040.10 AND
IEC 60825-1:1993+A2:2001

CLASS 1M WITHOUT VFL OPTION
CLASS 3R WITH VFL OPTION

ORDERING INFORMATION

FTB-7200D-12CD-23B-XX-XX

Model

FTB-7200D-12CD-23B = MM/SM four-wavelength OTDR module, 850/1300 nm (50/125 μm and 62.5/125 μm) 1310/1550 nm (9/125 μm)

Connector

EI-EUI-28 = UPC/DIN 47256
EI-EUI-76 = UPC/HMS-10/AG
EI-EUI-89 = UPC/FC narrow key
EI-EUI-90 = UPC/ST
EI-EUI-91 = UPC/SC
EI-EUI-95 = UPC/E-2000
EA-EUI-28 = APC/DIN 47256¹
EA-EUI-89 = APC/FC narrow key¹
EA-EUI-91 = APC/SC¹
EA-EUI-95 = APC/E-2000¹

Visual fault locator

00 = Without visual fault locator
VFL = With visual fault locator (universal 2.5 mm connector)

Example: FTB-7200D-12CD-23B-EI-EUI-89-VFL

Note 1: Singlemode only.

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EXFO is certified ISO 9001 and attests to the quality of these products. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor. For the most recent version of this spec sheet, please go to the EXFO website at <http://www.exfo.com/specs>. In case of discrepancy, the Web version takes precedence over any printed literature.