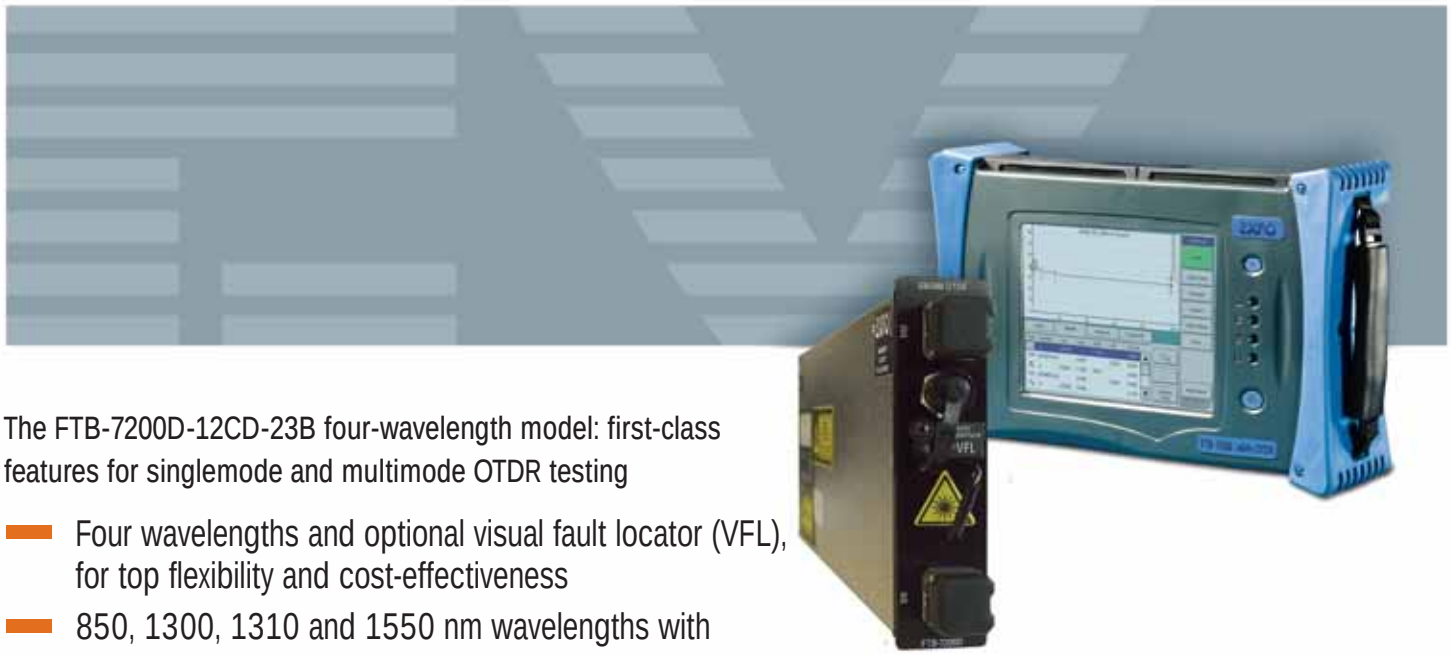
7200D

NETWORK TESTING

PREMISES NETWORK OTDR

FTB-7200D



The FTB-7200D-12CD-23B four-wavelength model: first-class features for singlemode and 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 27, 26, 36 and 35 dB
- Shortest dead zones in the industry: event dead zone of 1 m, and attenuation dead zone of 4.5 m for singlemode fiber and 3 m for 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.

SPECIFICATIONS[1]

All specifications below apply to the FTB-7200D-12CD-23B singlemode (SM)/multimode (MM) 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	27/26	1/1	3/4
	1310 ± 20/1550 ± 20	36/35	1/1	4.5/5

Distance range (km)	Multimode: 0.1, 0.3, 0.5, 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), –7 (1550 nm)
Visual fault locator (optional)	Laser, 650 nm ± 10 nm CW, P_{out} maximum: ≤ 5 mW (into free space) CW, typical P_{out} in 62.5/125 µm: 3 dBm (2 mW)

Notes

1. All specifications valid at 23 °C ± 2 °C (73.4 °F ± 3.6 °F) with an FC/PC connector, unless otherwise specified.
2. Typical dynamic range with longest pulse and three-minute averaging at SNR = 1.
3. Multimode dynamic range is specified for 62.5 µm fiber; a 3 dB reduction is seen when testing 50 µm fiber.
4. Typical dead zone for multimode reflectance below –35 dB and singlemode reflectance below –45 dB, using a 5 ns pulse.
5. Controlled launch conditions allow 50 µm and 62.5 µm multimode fiber testing.
6. Does not include uncertainty due to fiber index and sampling resolution.
7. 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 = Four-wavelength MM/SM OTDR module, 850/1300 nm (50/125 µm and 62.5/125 µm) and 1310/1550 nm (9/125 µm)

Connector[1]

EA-EUI-28 = APC/DIN 47256[2]
EA-EUI-89 = APC/FC narrow key[2]
EA-EUI-91 = APC/SC[2]
EA-EUI-95 = APC/E-2000[2]
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

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-EA-EUI-95-VFL

Note:

1. Please refer to the example above. First select the multimode connector, and then the singlemode connector.
2. Singlemode only.

Corporate Headquarters > 400 Godin Avenue, Vanier (Quebec) G1M 2K2 CANADA | Tel.: 1 418 683-0211 | Fax: 1 418 683-2170 | info@exfo.com

Toll-free: 1 800 663-3936 (USA and Canada) | www.exfo.com

EXFO America	4275 Kellway Circle, Suite 122	Addison, TX 75001 USA	Tel.: 1 800 663-3936	Fax: 1 972 836-0164
EXFO Europe	Le Dynasteur, 10/12 rue Andras Beck	92366 Meudon la Forêt Cedex FRANCE	Tel.: +33.1.40.83.85.85	Fax: +33.1.40.83.04.42
EXFO Asia-Pacific	151 Chin Swee Road, #03-29 Manhattan House	SINGAPORE 169876	Tel.: +65 6333 8241	Fax: +65 6333 8242
EXFO China	Beijing New Century Hotel Office Tower, Room 1754-1755 No. 6 Southern Capital Gym Road	Beijing 100044 P. R. CHINA	Tel.: +86 (10) 6849 2738	Fax: +86 (10) 6849 2662

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