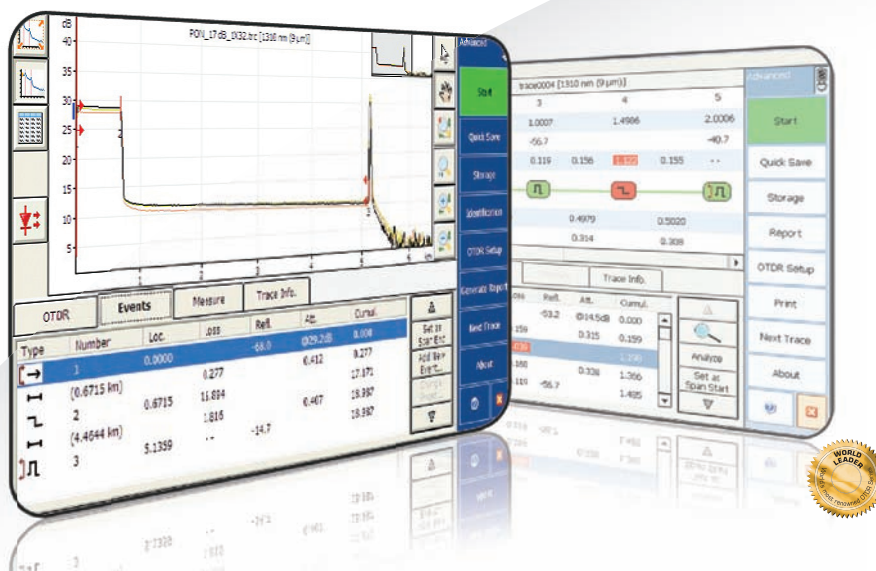


FTB-730 and FTB-7300E— PON FTTx/MDU OTDRs

OPTIMIZED FOR ACCESS FIBER DEPLOYMENTS
AND TROUBLESHOOTING



Perfect for fiber installers to seamlessly characterize splitters in PON FTTx and MDU applications

KEY FEATURES

Test through high-port-count splitters (up to 1x128)

Singlemode port for in-service troubleshooting

Dynamic range of up to 39 dB

Short acquisition time to speed up deployment process

APPLICATIONS

FTTx/MDU test challenges within PON networks

Access network testing

PLATFORM COMPATIBILITY

For FTB-730:



FTB-1

One-module platform for dedicated applications

For FTB-7300E:



FTB-200

Two-slot modular platform for combined applications



FTB-500

Four- or eight-slot platform for fiber characterization



Assessing
Next-Gen Networks

überreicht durch:



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All specifications valid at 23° C ± 2° C with an FC/PC connector for the FTB-7300E, with FC/APC for FTB-730, unless otherwise specified.

TECHNICAL SPECIFICATIONS		
Model	FTB-7300E ^a	FTB-730 ^b
Wavelength (nm) ^c	1310 ± 20/1490 ± 10/1550 ± 20/1625 ± 10/1650 ± 7	1310 ± 20/1490 ± 10/1550 ± 20/1625 ± 10
Dynamic range at 20 µs (dB) ^d	39/35/37/39 ^e /37	39/35/37/39
Event dead zone (m) ^f	0.8	0.8
Attenuation dead zone (m) ^f	4/4.5/4.5/4.5/4.5	4/4.5/4.5/4.5
Distance range (km)	1.25, 2.5, 5, 10, 20, 40, 80, 160, 260, 400	1.25, 2.5, 5, 10, 20, 40, 80, 160, 260, 400
Pulse width (ns)	5, 10, 30, 50, 100, 275, 500, 1000, 2500, 10 000, 20 000	5, 10, 30, 50, 100, 275, 500, 1000, 2500, 10 000, 20 000
Linearity (dB/dB) ^c	± 0.03	± 0.03
PON dead zone (m) ^g		35
Loss threshold (dB)	0.01	0.01
Loss resolution (dB)	0.001	0.001
Sampling resolution (m)	0.04 to 5	0.04 to 5
Sampling points	Up to 256 000	Up to 256 000
Distance uncertainty (m) ^h	± (0.75 + 0.001 % x distance + sampling resolution)	± (0.75 + 0.0025 % x distance + resolution)
Measurement time	User-defined (60 min. maximum)	User-defined (60 min. maximum)
Typical real-time refresh (Hz)	4	4
Stable source output power (dBm) ⁱ	-2.5	-2.5
Visual fault locator (optional) ^c	Laser, 650 nm ± 10 nm CW, P _{out} in 62.5/125 µm: 1.5 dBm (1.4 mW)	n/a ^j
Reflectance (dB) ^c	± 2	± 2

For complete details on all available configurations, refer to the Ordering Information section.


Notes

- SM Live port built in filter's bandpass 1625 nm ± 15 nm/1650 nm ± 7 nm.
- SM Live port built in filter's bandpass 1625 nm ± 15 nm; 1650 nm not available for FTB-730.
- Typical.
- Typical dynamic range with a three-minute averaging at SNR = 1.
- Non-SM Live 1625 nm dynamic range is 37 dB.
- Typical dead zone of singlemode modules for reflectance below -45 dB, using a 5 ns pulse.
- Non-reflective FUT, non-reflective splitter, 13 dB loss, 50 ns pulse, typical value.
- Does not include uncertainty due to fiber index.
- Typical output power value at 1550 nm.
- Visual fault locator available on FTB-1 platform.

GENERAL SPECIFICATIONS		
Module	FTB-7300E	FTB-730
Size (H x W x D)	97 mm x 25 mm x 260 mm (3 13/16 in x 1 in x 10 1/4 in)	130 mm x 36 mm x 252 mm (5 1/8 in x 1 7/16 in x 9 15/16 in)
Weight	0.55 kg (1.2 lb)	0.65 kg (1.4 lb)

LASER SAFETY

21 CFR 1040.10 AND IEC 60825-1:2007
CLASS 1M WITHOUT VFL OPTION
CLASS 3R WITH VFL OPTION



ORDERING INFORMATION

SINGLEMODE (PON FTTx/MDU) FOR FTB-200 COMPACT PLATFORM OR FTB-500 PLATFORM

FTB-7300E-XX-XX-XX-XX

Model

Dual Wavelength

FTB-7300E-023B = SM OTDR module, 1310/1550 nm (9/125 μm)
 FTB-7300E-034B = SM OTDR module, 1550/1625 nm (9/125 μm)

Triple Wavelength

FTB-7300E-234B = SM OTDR module, 1310/1550/1625 nm (9/125 μm)
 FTB-7300E-236B = SM OTDR module, 1310/1490/1550 nm (9/125 μm)

SM Live Port

FTB-7300E-023B-04B = SM and SM live OTDR module, 1310/1550 and 1625 nm live port
 FTB-7300E-023B-08B = SM and SM live OTDR module, 1310/1550 and 1650 nm live port
 FTB-7300E-000-04B = SM OTDR, 1310/1550 nm (9/125 μm)

Visual Fault Locator

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

Software Option

00 = Without software option
 AD = Macrobend finder and linear view ^a

Connector

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

EI: See note below

Example: FTB-7300E-023B-04B-EA-EUI-89-VFL

Note

a. This software option is compatible only on FTB-200 platform.

SINGLEMODE (PON FTTx/MDU) FOR FTB-1 PLATFORM

FTB-730-XX-XX-XX

Model

Dual Wavelength

FTB-730-023B = SM OTDR module, 1310/1550 nm (9/125 μm)

Triple Wavelength

FTB-730-236B = SM OTDR module, 1310/1490/1550 nm (9/125 μm)

SM Live Port

FTB-730-023B-04B = SM and SM live OTDR module, 1310/1550 and 1625 nm live port
 FTB-730-000-04B = SM live OTDR with 1625 nm live port (9/125 μm)

Connector

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

Software Options

00 = Without software option
 AD = Auto diagnostic (macrobend detection, pass/fail and fault finder)
 EC = Event characterization (bidirectional analysis and Template mode)

EI: See note below

Example: FTB-730-023B-04B-EA-EUI-89-AD

EI Connectors

To maximize the performance of your OTDR, EXFO recommends using APC connectors. These connectors generate lower reflectance, which is a critical parameter that affects performance, particularly dead zones. APC connectors provide better performances than UPC connectors, thereby improving testing efficiency.

Note

UPC connectors are also available, simply replace EA-XX by EI-XX in the ordering part number. Additional connectors available are the EI-EUI-76 (UPC/HMS-10/AG) and EI-EUI-91 (UPC/ST).

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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. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit www.EXFO.com/recycle. Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

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