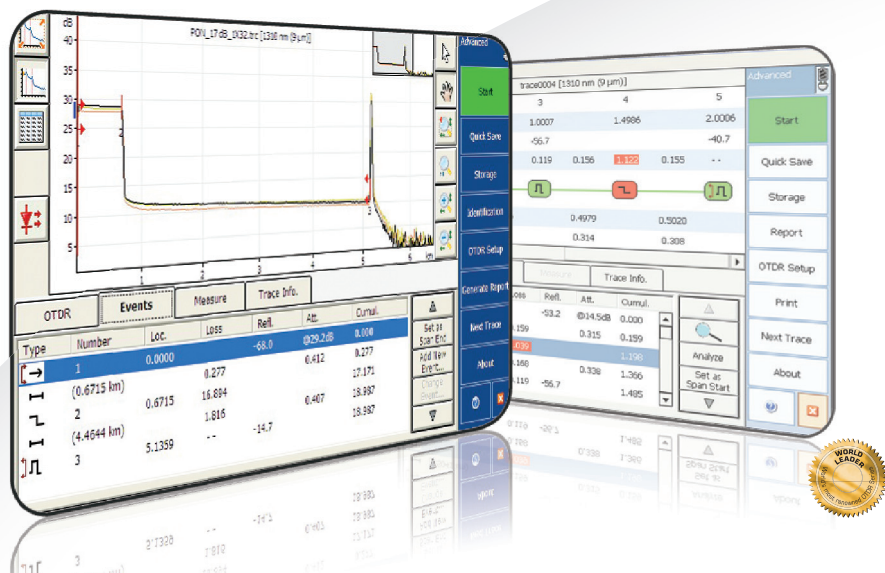


# FTB-730 and FTB-7300E— PON FTTx/MDU OTDRs

OPTIMIZED FOR ACCESS FIBER DEPLOYMENTS  
AND TROUBLESHOOTING



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

SPEC SHEET

## 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



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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 <sup>a</sup>	FTB-730 <sup>b</sup>
Wavelength (nm) <sup>c</sup>	1310 ± 20/1490 ± 10/1550 ± 20/1625 ± 10/1650 ± 7	1310 ± 20/1490 ± 10/1550 ± 20/1625 ± 10
Dynamic range at 20 μs (dB) <sup>d</sup>	39/35/37/39 <sup>e</sup> /37	39/35/37/39
Event dead zone (m) <sup>f</sup>	0.8	0.8
Attenuation dead zone (m) <sup>f</sup>	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) <sup>c</sup>	± 0.03	± 0.03
PON dead zone (m) <sup>g</sup>		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) <sup>h</sup>	± (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) <sup>i</sup>	-2.5	-2.5
Visual fault locator (optional) <sup>c</sup>	Laser, 650 nm ± 10 nm CW, P <sub>out</sub> in 62.5/125 μm: 1.5 dBm (1.4 mW)	n/a <sup>j</sup>
Reflectance (dB) <sup>c</sup>	± 2	± 2

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

**Notes**

- a. SM Live port built in filter's bandpass 1625 nm ± 15 nm/1650 nm ± 7 nm.
- b. SM Live port built in filter's bandpass 1625 nm ± 15 nm; 1650 nm not available for FTB-730.
- c. Typical.
- d. Typical dynamic range with a three-minute averaging at SNR = 1.
- e. Non-SM Live 1625 nm dynamic range is 37 dB.
- f. Typical dead zone of singlemode modules for reflectance below -45 dB, using a 5 ns pulse.
- g. Non-reflective FUT, non-reflective splitter, 13 dB loss, 50 ns pulse, typical value.
- h. Does not include uncertainty due to fiber index.
- i. Typical output power value at 1550 nm.
- j. 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	
<p>21 CFR 1040.10 AND IEC 60825-1:2007 CLASS 1M WITHOUT VFL OPTION CLASS 3R WITH VFL OPTION</p>	

**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 <sup>a</sup>

**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](http://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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