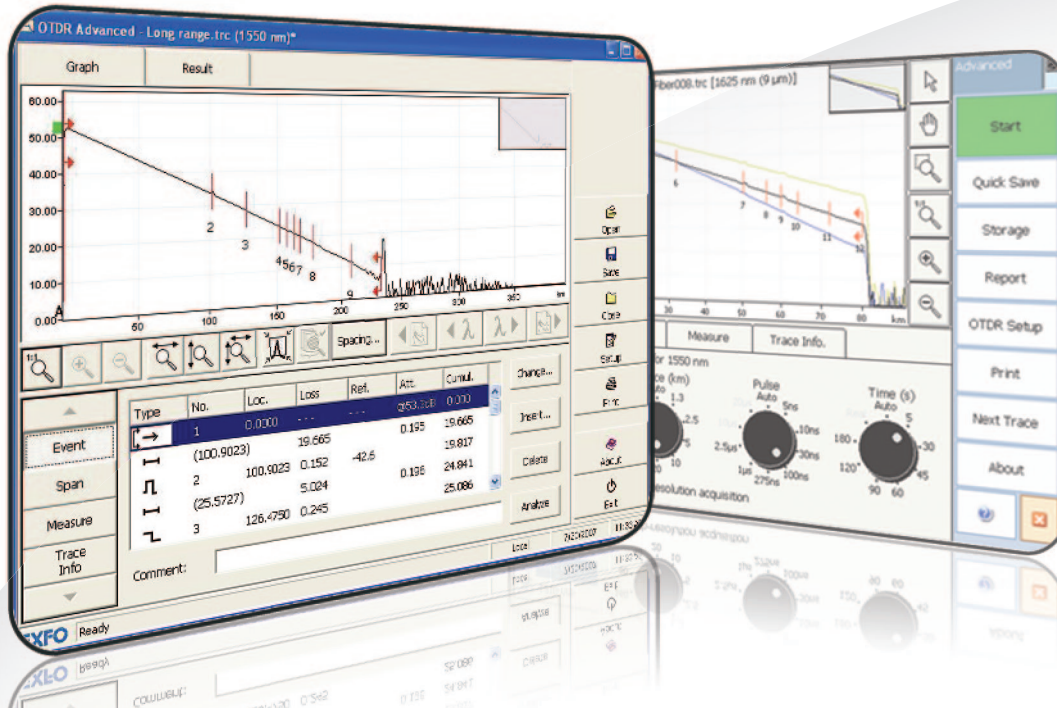


# FTB-7600E—Ultra-Long-Haul OTDR

HIGH-END FIBER CHARACTERIZATION AND SUBMARINE CABLE TESTING



50 dB OTDR characterizing fiber with maximum accuracy over distances of more than 200 km

## KEY FEATURES

Dynamic range of up to 50 dB

Single- and dual-wavelength configurations  
(1310/1550/1625 nm)

Up to 256 000 sampling points

Industry-leading linearity of  $\pm 0.03$  dB/dB

## APPLICATIONS

Ultra-long-haul network testing

Submarine cable testing

## PLATFORM COMPATIBILITY



Platform  
FTB-500



Compact Platform  
FTB-200



Assessing  
Next-Gen Networks

All specifications valid at 23 °C ± 2 °C with an FC/PC connector, unless otherwise specified.

## TECHNICAL SPECIFICATIONS <sup>a</sup>

Model <sup>a</sup>	FTB-7600E
Wavelengths (nm) <sup>b</sup>	1310 ± 20/1550 ± 20/1625 ± 10
Dynamic range at 20 μs (dB) <sup>c</sup>	50/50/48 <sup>g</sup>
Event dead zone (m) <sup>d</sup>	1/1.5/1
Attenuation dead zone (m) <sup>d</sup>	5/5/5
Distance range (km)	1.25, 2.5, 5, 10, 20, 40, 80, 160, 260, 400
Pulse width (ns)	5, 10, 30, 100, 275, 1000, 2500, 10 000, 20 000
Linearity (dB/dB) <sup>b</sup>	± 0.03
Loss threshold (dB)	0.01
Loss resolution (dB)	0.001
Sampling resolution (m)	0.04 to 5
Sampling points	Up to 256 000
Distance uncertainty (m) <sup>e</sup>	± (0.75 + 0.001 % x distance + sampling resolution)
Measurement time	User-defined (5 sec. minimum to 60 min. maximum)
Typical real-time refresh (Hz)	4
Stable source output power (dBm) <sup>f</sup>	5
Visual fault locator (optional) <sup>b</sup>	Laser, 650 nm ± 10 nm CW, P <sub>out</sub> in 62.5/125 μm: 1.5 dBm (1.4 mW)

### Notes

- For complete details on all available configurations, refer to the Ordering Information section.
- Typical.
- Typical dynamic range with a three-minute averaging at SNR = 1.
- Typical dead zone of singlemode modules for reflectance below -45 dB, using a 5 ns pulse.
- Does not include uncertainty due to fiber index.
- Typical output power value at 1550 nm.
- With NZDS fiber (G.655).

## LASER SAFETY

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



## ORDERING INFORMATION

## Singlemode (ULTRA-LONG-HAUL)

## FTB-7600E-XX-XX-VFL-XX

## Model

## Dual-wavelength

FTB-7600E-0023B = SM OTDR module, 1310/1550 nm (9/125 µm)<sup>a</sup>FTB-7600E-0034B = SM OTDR module, 1550/1625 nm (9/125 µm)<sup>a</sup>

Example: FTB-7600E-0023B-EI-EUI-89-VFL-AD

## Software Option

00 = Without software option

AD = Macrobend finder and linear view<sup>b</sup>

## Visual fault locator (universal 2.5 mm connector)

## 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-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

## Note

a. VFL always included.

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

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