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, 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]	39/35/37/39/37 [e]	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) [g]	± 0.03	± 0.03
PON dead zone (m) [h]	35	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) [i]	± (0.75 + 0.001 % x distance + sampling resolution)	± (0.75m + 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) [j]	−2.5	−2.5
Visual fault locator (optional) [c]	Laser, 650 nm ± 10 nm CW, P_{out} in 62.5/125 µm: 3 dBm (2 mW)	Laser, 650 nm ± 10 nm CW, P_{out} in 62.5/125 µm: 3 dBm (2 mW)
Reflectance (dB) [c]	± 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. Typical value.
h. Non-reflective splitter, 13 dB loss, 50 ns pulse, typical value.
i. Does not include uncertainty due to fiber index.
j. Typical output power value at 1550 nm.

GENERAL SPECIFICATIONS

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

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

Visual Fault Locator
00 = Without visual fault locator
VFL = With 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

Software Option
00 = Without software option
AD = Macrobend finder and linear view [a]

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)

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

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

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

Note

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

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