

FTB-7200D LAN/WAN Access OTDR

OPTIMIZED FOR MULTIMODE AND
SINGLEMODE ACCESS NETWORK TESTING



EXFO Connect
Compatible

FROST & SULLIVAN

BEST
2011 PRACTICES
AWARD

GLOBAL PORTABLE FIBER OPTIC
TEST EQUIPMENT MARKET
SHARE LEADERSHIP AWARD

Housed in a full-size portable platform, this OTDR is ideal to maximize efficiency of fiber installers testing multimode and singlemode fibers.

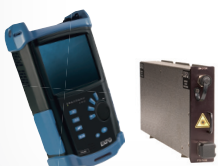
KEY FEATURES

- Dynamic range of up to 36 dB
- Event dead zone as low as 0.8 meter
- Combined singlemode/multimode wavelengths (12CD-23B model)
- Integrated tool: combines a visual fault locator, inspection probe, broadband power meter and a CW source mode
- Controlled launch conditions for more accurate loss measurements
- EXFO Connect-compatible: automated asset management; data goes through the cloud and into a dynamic database

APPLICATIONS

- Access network testing
- LAN/WAN characterization

PLATFORM COMPATIBILITY



FTB-200
Two-slot modular platform
for combined applications



FTB-500
Four- or eight-slot platform
for fiber characterization



Assessing
Next-Gen Networks

EXFO Connect



AUTOMATE ASSET MANAGEMENT. PUSH TEST DATA IN THE CLOUD. GET CONNECTED.

EXFO Connect pushes and stores test equipment and test data content automatically in the cloud, allowing you to streamline test operation from build-out to maintenance.

ADDITIONAL SOFTWARE TEST CAPABILITIES ON THE FTB-200 PLATFORM

EXpert VoIP
TEST TOOLS

EXpert VoIP generates a voice-over-IP call directly from the test platform to validate performance during service turn-up and troubleshooting.

- Supports a wide range of signaling protocols, including SIP, SCCP, H.248/Megaco and H.323
- Supports MOS and R-factor quality metrics
- Simplifies testing with configurable pass/fail thresholds and RTP metrics

EXpert IP
TEST TOOLS

EXpert IP integrates six commonly used datacom test tools into one platform-based application to ensure that field technicians are prepared for a wide range of testing needs.

- Rapidly performs debugging sequences with VLAN scan and LAN discovery
- Validates end-to-end ping and traceroute
- Verifies FTP performance and HTTP availability

EXpert IPTV
TEST TOOLS

This powerful IPTV quality assessment solution enables set-top-box emulation and passive monitoring of IPTV streams, allowing quick and easy pass/fail verification of IPTV installations.

- Real-time video preview
- Analyzes up to 10 video streams
- Comprehensive QoS and QoE metrics including MOS score

SPECIFICATIONS ^a

TECHNICAL SPECIFICATIONS

Wavelength (nm) ^b	850 ± 20, 1300 ± 20, 1310 ± 20, 1550 ± 20
Dynamic range (dB) ^{c, d}	27, 26, 36, 34
Event dead zone (m) ^e	1
Attenuation dead zone (m) ^e	3, 4, 4.5, 5
Distance range (km)	Multimode: 0.1, 0.3, 0.5, 1.3, 2.5, 5, 10, 20, 40 Singlemode: 1.25, 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 ^f	Class CPR 1 or 2 ⁱ
Linearity (dB/dB) ^b	±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 (m) ^g	±(0.75 + 0.0025 % x distance + sampling resolution)
Measurement time	User-defined (60 min. maximum)
Typical real-time refresh (Hz)	3
Stable source output power (dBm) ^h	-1.5 (1300 nm), -7 (1550 nm)

NOTES

- All specifications valid at 23 °C ± 2 °C with an FC/PC connector, unless otherwise specified.
- Typical.
- Typical dynamic range with longest pulse and three-minute averaging at SNR = 1.
- Multimode dynamic range is specified for 62.5 µm fiber; a 3 dB reduction is seen when testing 50 µm fiber.
- Typical dead zone for multimode reflectance below -35 dB and singlemode reflectance below -45 dB, using a 5 ns pulse.

- For multimode port, controlled launch conditions allow 50 µm and 62.5 µm multimode fiber testing.
- Does not include uncertainty due to fiber index.
- Typical output power is given at 1300 nm for multimode output and 1550 nm for singlemode output.
- Under improvement to achieve better conditions.



Assessing
Next-Gen Networks

LASER SAFETY

21 CFR 1040.10 AND IEC 60825-1:2007
CLASS 1M



ORDERING INFORMATION

Multimode and singlemode (access and LAN/WAN OTDR)

FTB-7200D-XX-XX-XX-XX

Model ■

FTB-7200D-12CD-23B = Four-wavelength MM/SM OTDR module, 850/1300 nm (50/125 μ m and 62.5/125 μ m) and 1310/1550 nm (9/125 μ m)
 FTB-7200D-12CD = Dual-wavelength MM OTDR module, 850/1300 nm (50/125 μ m and 62.5/125 μ m)
 FTB-7200D-023B = Dual-wavelength SM OTDR module, 1310/1550 nm (9/125 μ m)

Singlemode 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
 EA-EUI-98 = APC/LC
 EI connectors = See note below

OTDR Software Option ^a

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

Multimode Connector ^b

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
 EI-EUI-98 = UPC/LC

Example: FTB-7200D-12CD-23B-EI-EUI-89-EA-EUI-95-AD

Notes

- a. This software option is compatible only on FTB-200 platform.
 b. Please refer to the example above. First select the multimode connector, then the singlemode connector.

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-90 (UPC/ST).

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