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## Test & Measurement

## **Complimentary Reference Material**

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## Mini-OTDR FTB-100B



Rugged, splashproof unit

Modular design for field use

High-quality touchscreen

Wide variety of OTDR modules



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EXPO

FTE-1008 MINI-OTOR

Fiber-optic test, measurement, monitoring and automation solutions 0

# High-Performance OTDR in an Easy-to-Use Package

The FTB-100B is a mini-OTDR that supports all of EXFO's OTDR modules. The FTB-100B has the features you need, whether you're an intensive or occasional OTDR user.

## **Key Features**

- Monochrome or color touchscreen
- Integrated power meter
- Internal memory of 700 traces
- Additional storage capacity of up to 6000 traces
- Standard floppy drive and PCMCIA port
- Over eight hours battery operating time



## **Rugged Platform**

The FTB-100B is built to handle even the harshest field conditions. Its sturdy design allows it absorb the hits and shocks that are par for the course in outside plant testing. Splashproof casing makes the FTB-100B a high-performance, all-weather instrument.



#### PC Connectivity

The FTB-100B is supported by Windows CE, a compact operating system used in personal digital assistant and palmtop PC products. Ideal for portable test equipment, Windows CE provides superior power management, data storage and transfer, and PC connectivity.



#### **Durable Touchscreen**

The FTB-100B's touchscreen gives fast access to all menus and functions; with the FTB-100B each function is only a touch away. Tested to endure over a million touches in one spot without failure, the touchscreen offers many times the durability of push buttons.



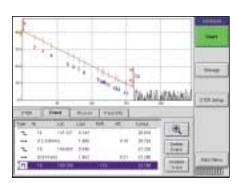
#### **Modular Flexibility**

The FTB-100B hosts the OTDR module of your choice. Optical modules can be swapped without tools in a matter of seconds. Reconfigure the test set easily anywhere, anytime, as often as you need. FTB-100B modules are also compatible with the FTB-400 Universal Test System, so multiple users can share one module.

## Top-of-the-Line OTDR Performance

EXFO offers a variety of singlemode OTDR modules at four essential wavelengths— 1310 nm, 1550 nm, 1625 nm, and 1410 nm—to cover all fiber applications from long-haul and WDM to metropolitan networks. The FTB-100B is also ideal for LAN applications because it can host multimode OTDR modules.

EXFO's OTDR modules offer an impressive dynamic range with short dead zones to meet today's stringent network test requirements. OTDR modules perform rapid acquisitions



with low noise levels enabling accurate low-loss splice location. An OTDR trace, consisting of up to 52 000 points, provides a sampling resolution as small as 8 cm. This unmatched sampling capability produces optimal resolution for even the longest distances. Each OTDR module provides a stable light source, a power meter, as well as the option to add a visual fault locator.

## High-Performance OTDR Modules

- Full range of singlemode and multimode modules
- Dynamic range up to 45 dB
- Triple-wavelength OTDR files
- Four-point loss measurements
- ORL calculation
- Pass/Fail test result validation
- Universal connector interface
- Visual fault locator

## **Integrated Power Meter**

EXFO delivers another all-in-one solution. The FTB-100B comes complete with an integrated power meter to optimize your field performance and efficiency. This practical InGaAs detector power meter is as accurate as our popular handheld power meters and features calibrated wavelengths of 850 nm, 1300 nm, 1310 nm, 1550 nm and 1625 nm.

With one rugged platform, you can accurately measure insertion loss, and precisely detect and analyze splices, connectors, breaks and other events along a fiber.

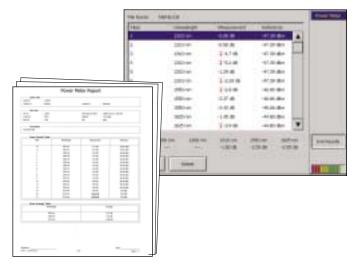
With the integrated power meter, the FTB-100B now offers:

- Power measurements in dB, dBm, and watts
- Easy wavelength selection
- Quick save
- Quick print



## **Professional Data Management**

- Convenient result tables
- Produce high-quality documents in minutes
- Download data to your PC or the FTB-400 via the RS-232 port
- Compatible with ToolBox Office multiple testing software
- View, export or print your data



## A Complete OTDR Software Application

#### All the OTDR Modes You'll Need

The FTB-100B's OTDR software is designed for simplicity and automation. Three operation modes meet all your OTDR testing needs:

- Auto mode lets you select acquisition parameters automatically. Perfect for basic, repetitive OTDR applications or for occasional users.
- Advanced mode offers more flexibility with multiple setup and measurement capabilities. Change index of refraction and helix factor settings for optimal distance measurements.
- Template Trace mode compares each acquisition with a designated template for complete cable testing and documentation.

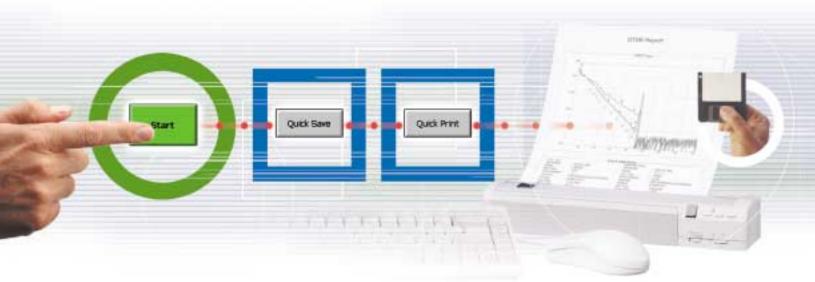
#### Automatic Data Synchronization

Transferring data between a mini-OTDR and a PC has never been easier. Connect the serial cable to the FTB-100B and data synchronization begins automatically.

#### Immediate Pass/Fail Test Result Validation

Submit fiber test results for Pass/Fail validation to ensure that data does not exceed userdefined thresholds such as splice loss, total loss, and backreflection. The OTDR automatically validates results for faster, more reliable testing.

## As easy as 1-2-3!



Press **Start**, and Auto mode sets test parameters, performs single- or dualwavelength OTDR testing, and issues detailed results. The one-button **Quick Save** feature with automatic trace-naming completes the test routine.

The **Quick Print** function automatically issues a complete test report.

## **ToolBox Office PC Emulation Software for Post-Processing**

Performing data post-processing with optional ToolBox Office software gives you more OTDR processing functions.

#### **Bidirectional Trace Analysis\***

Improve the accuracy of your loss measurements with the bidirectional averaging feature, which uses OTDR acquisitions from both ends of a fiber span to average loss results for each event.

\* Available on singlemode OTDRs only.

#### Efficient Multifiber Testing with Template Trace

Save testing time when commissioning a large number of fibers by using the template trace feature. Template Trace mode dynamically compares new OTDR results with a trace you assign as a reference. Reference trace documentation is automatically pasted onto new acquisitions to save you time.

|  | Contract N52-1                                | 2 - OTDR Rep                                   | port   | N52-12 - 0  | TDR Re   | port           |                      |  | TDR Report   |
|--|---|--|--|---|--|----------------|----------------------|--|--|
| Juli 10<br>Contractor<br>Customer<br>Tesi Date | Canitasi ND-12<br>Peter<br>1996/2318          | Research<br>Operation A<br>Operation B<br>Film | <ul> <li>Maintenance</li> <li>John Zievens</li> <li>Joan Donastei</li> <li>MEASKANG TRC</li> </ul> | - Spin  | Loss<br>(dll)                                      | Fail.<br>(dl)  | Atian<br>(diches)    | Cumul.<br>(48)   | in Tuace<br>ordength : 1993 ren (BM)<br>rige : 49003.0 km<br>h Index : 1.4685  |
| Filer ID<br>Location A<br>Cable Mig            | : 0842-13<br>: Central office 13<br>: Carning | Calife ID<br>Location B                        | - 12-12<br>- cantod after 11   | h Level<br>= (15.135 km)<br>ter Fault<br>= (5.051 km)<br>sitive Fault<br>= (3.527 km)<br>sitive Fault | 5.834<br>3.868<br>2.341<br>0.860<br>0.749          | -32.6<br>-23.8 | 0.36<br>0.37<br>0.37 | 9.802<br>12.043<br>12.955                                | E Coefficienti - 47.48<br>robuste - F18 73208-70 (un 384<br>fautre - Tatilone 2.30 C<br>5. Tome - 1.0 ann<br>far Wells - 276.0 m.<br>In Faulter - 0.80 |
| Ê  | 4   | !  |  | e (3.223 km)<br>nike Fadi<br>e (3.273 km)<br>nike Fadi<br>e (2.851 km)<br>he Fadi                     | 1.208<br>1.221<br>1.275<br>0.000<br>1.027<br>0.893 | -40.2          | 0.40<br>0.35<br>0.35 | 16.307<br>17.827<br>18.602<br>18.192<br>20.229<br>21.122 | : 17202.28 km, 24.72 dB<br># 8.44. : 0.32 dB km<br># 8.0%L : 0.35 dB   |
|  | 4   |  |  | er (2.119 km)<br>subre Fault<br>er (3.135 km)<br>subre Fault<br>er (3.867 km)<br>subre Fault          | 6.7%<br>0.338<br>1.088<br>0.620<br>1.434           |                | 0.37<br>0.38<br>0.38 | 23.312<br>23.832<br>26.336                               | rage Loss : 0.001 slubse<br>al DRL : 32.264 ell<br>alla lacated. Companyon la reference  |
|  | 14  |  |  | in (3.8% km)<br>ive End   | 1.431  | -13.1          | 6.37                 | 27.333<br>27.333   |  |
|  |   | Tom.   | mm.man   |   |  |                |                      |  |  |
| POLO Engration                                 |   | = 1.00   | Date - 271110<br>Fair  |   |  |                | Date:                | Fair   | Date   |

#### **Professional Report Generation**

User-configurable test reports and batch printing let you generate complete, professional OTDR reports quickly and efficiently.

#### Export OTDR Files in Bellcore or ASCII Format

Save and load OTDR test results in the Bellcore-standard OTDR record format. Export results in ASCII or ASCII+ format to spreadsheet or wordprocessing applications.

## More Power with ToolBox Office Pro

Optional ToolBox Office Pro software accelerates data postprocessing by as much as 90 % with two key utilities: batch processor and cable report generator. ToolBox Pro is available in convenient CD format.

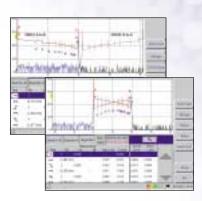
#### **Batch Processor**



- Data analysis
- File conversion
- Printing and saving
- Bidirectional OTDR averaging
- Template trace comparison
- Zoom function
- Document operation photo: batch processor screen shot

#### **Cable Report Generator**

- Area 2- detection
   Sector
   Sector
- Event table compiles all event measurements
- Fiber table provides attenuation values for each fiber and fiber section of a cable
- Fault table lists all events and measurements exceeding userdefined thresholds
- Report available in PDF and Excel format



## FTB-100B Mini-OTDR Specifications

| Processor                           | Intel StrongArm, 206 MHz                             |   |
|-------------------------------------|--|---|
| Interfaces                          | Serial RS-232C                                       | Parallel printer  |
| External                            | Keyboard PS/2  | PCMCIA Type II  |
| Internal memory <sup>1</sup>        | 32 MB total (700 traces typ. ), standard             |   |
| Additional storage (optional)       | PCMCIA flash cards, up to 6000 traces                |   |
| Floppy drive                        | 3.5 inch floppy drive, 1.44 MB                       |   |
| Display                             | Monochrome LCD touchscreen, 18.8 cm (7.4 in), 64     | 40 x 480, transflective   |
|                                     | Color LCD touchscreen, 19.6 cm (7.7 in), 640 x 480   | , 256 colors (optional)   |
| Touchscreen                         | Resistive, 8 wires                                   |   |
|                                     | Positional accuracy better than 2 %, full scale, wor | rst-case error $< \pm 0.5$ cm (0.18 in)   |
|                                     | Resistant to most common chemicals <sup>2</sup>      |   |
| External power supply               | AC input: 100 to 240 V, 50 Hz to 60 Hz               |   |
| Battery                             | Nickel metal-hydride (NiMH), rechargeable, smart (   | (standard)  |
| Battery operating time <sup>3</sup> | 8 h – NiMH battery                                   |   |
| Recharge time                       | 2.5 h (off), 8 h (on)                                |   |
| Size (H x W x D)                    | 21.6 cm x 33.6 cm x 8.9 cm                           | (8 <sup>1</sup> / <sub>2</sub> x 13 <sup>1</sup> / <sub>4</sub> x 3 <sup>1</sup> / <sub>2</sub> in) |
| Weight⁴                             | 3.7 kg   | (8.1 lb)  |
| Operating temperature <sup>5</sup>  | −5 °C to 50 °C                                       | (23 °F to 122 °F)   |
| Storage temperature <sup>6</sup>    | –40 °C to 60 °C (–40 °F to 140 °F) (shipping)        | -20 °C to 50 °C (-4 °F to 122 °F) (long term)   |
| Relative humidity                   | 0 to 95 % max. non-condensing                        |   |

| Calibrated wavelengths (nm) | 850, 1300, 1310, 1550, 1625 |
|-----------------------------|-----------------------------|
| Power range (dBm)           | 4 to -70                    |
| Uncertainty (%)             | ± 5 (0 dBm to -46 dBm)      |
| Linearity (dB)              | ± 0.05 (0 dBm to -46 dBm)   |
|                             | ± 0.1 (-46 dBm to -57 dBm)  |
| Display resolution (dB)     | 0.01 (4 dBm to -63 dBm)     |
|                             | 0.1 (-63 dBm to -70 dBm)    |
| Tone detection (Hz)         | 270/1000/2000               |

### **FTB-100B Product Information**

#### Ordering Information and Price List (Platform)

#### Standard features

- 18.8 cm (7.4 in) monochrome LCD (transflective)
- Touchscreen display
- 700-trace internal OTDR storage (approx.)
- 3.5 in floppy drive
- PCMCIA interface for flash memory card
- Semi-rigid carrying case (not included if rigid case is ordered)
- AC adapter/charger
- NiMH smart battery
- Serial cable: null modem cable, DB9F to DB9F
- Free software upgrades for one year

#### Notes:

- 1. With GC language option, total internal storage is 550 traces (typical).
- 2. Heptane, ethanol, isopropanol, acetone, methyl ethyl ketone, cellosolve acetate, toluene, carbitol acetate, hydrochloric acid, turpentine, Vm and naptha, unleaded gasoline, motor oil, diesel fuel, transmission fluid, antifreeze.
- 3. According to Telcordia TR-NWT-001138, with monochrome display.
- 4. FTB-100B with OTDR module and battery.
- 5. Excluding floppy drive (use is not recommended below 0 °C). OTDR module performance can be affected at sub-zero temperatures.
- 6. Excluding the battery.

#### FTB-100B-N4-ZZ-Options

- ZZ = Specify language choice:
- GA = English, French, Spanish, German, Italian, Czech and Russian
- GB = Traditional Chinese and GA
- GC = Simplified Chinese and GA

D2 = 19.6 cm (7.7 in) color touchscreen

RC = Rigid carrying case (replaces standard, semi-rigid case)

PM-XX = Power Meter InGaAs detector XX: FOA-XX type selection

#### Specify the FOA adapter type you wish to obtain.

(one free adapter included)

- Example: PM-22 for power meter option with FC type FOA FOA-12 Biconic FOA-14 D4: D4, D4/PC SMA/905, SMA/906 FOA-16
- FC: FC, FC(/PC/SPC/UPC/APC), NEC-D3 FOA-22 ST: ST, ST(/PC/SPC/UPC)
- FOA-32
- FOA-34 Mini-BNC
- FOA-40 Diamond HMS-0, HFS-3 (3.5 mm)
- FOA-54 SC: SC(/PC/SPC/UPC/APC)
- Diamond HMS-10, HFS-13 FOA-84
- For other FOA types, please contact EXFO.

| Accessories |  |                    |  |
|-------------|--|--------------------|--|
| GP-10-034   | Spare semi-rigid carrying case                       | GP-287(A-E-I-S-U)  | External battery charger for smart battery               |
| GP-10-035   | Spare rigid carrying case                            |                    | (requires external AC adapter/charger)                   |
| GP-216      | Null modem cable, DB9F to DB9F                       |                    | Specify: A-North America, E-Europe, I-India,             |
| GP-219      | External keyboard                                    |                    | S-Australia and New Zealand, U-United Kingdom            |
| GP-225      | FTB power cable for vehicle cigarette lighter (12 V) | GP-288 (A-E-I-S-U) | Spare external AC adapter/charger for FTB-100B           |
| GP-281      | 16 MB ATA flash card (500 traces typ.)               |                    | Specify: A-North America, E-Europe, I-India,             |
| GP-282      | 32 MB ATA flash card (1000 traces typ.)              |                    | S-Australia and New Zealand, U-United Kingdom            |
| GP-283      | 80 MB ATA flash card (3000 traces typ.)              | GP-297             | CANON BJC-50 Printer including parallel cable            |
| GP-284      | 160 MB ATA flash card (6000 traces typ.)             |                    | Specify: A-North America, E-Europe, I-India, S-Australia |
| GP-285      | Spare NiMH smart battery                             |                    | and New Zealand, U-United Kingdom                        |
|             |  |                    |  |

## **Specifications**

#### **OTDR Multimode Module Specifications**<sup>1</sup>

| Waveleng<br>(nm) | rang  |                  | dead zone <sup>3</sup> | Attenuation<br>dead zone <sup>3</sup><br>(m) | Model                         |
|------------------|-------|------------------|------------------------|--|-------------------------------|
| 850 ± 20/1       | · · / | 7 (C), 25/29 (D) |                        |  | FTB-7212B-C or D <sup>7</sup> |

#### **OTDR Singlemode Module Specifications**<sup>1</sup>

| Wavelength                    | Dynamic            | Dynamic            | Event      | Attenuation | Model                    |
|-------------------------------|--------------------|--------------------|------------|-------------|--------------------------|
| (nm)                          | range <sup>2</sup> | range <sup>2</sup> | dead zone⁵ | dead zone⁵  |                          |
|                               | (dB) at 10 µs      | (dB) at 20 µs      | (m)        | (m)         |                          |
| Single-Dual-Wavelength module | e                  |                    |            |             |                          |
| 1310 ± 20/1550 ± 20           | 32/31              | -                  | 3/3        | 10/15       | FTB-7223B-B <sup>7</sup> |
| 1310 ± 20/1550 ± 20           | 37.5/35.5          | 38.5/37.5          | 3/3        | 10/15       | FTB-7323B-B              |
| 1310 ± 20/1550 ± 20           | 40/38              | 41.5/39.5          | 3/3        | 10/15       | FTB-7423B-B              |
| 1310 ± 20/1550 ± 20           | 43.5/41.5⁴         | <b>45/43</b> ⁴     | 3/3        | 10/15       | FTB-7523B-B              |
| 1410 ± 10                     | 37                 | 38.5               | 3          | 10          | FTB-7405B-B              |
| 1550 ± 20                     | 42                 | 43.5               | 3          | 15          | FTB-7503B-B-E            |
| 1625 ± 10                     | 35                 | 36                 | 3          | 16          | FTB-7304B-B              |
| 1625 ± 10                     | 38                 | 39                 | 3          | 16          | FTB-7404B-B              |
| 1625 ± 10                     | 40                 | 41.5               | 3          | 16          | FTB-7504B-B              |
| 1550 ± 20/1625 ± 10           | 35.5/35            | 37.5/36            | 3/3        | 15/16       | FTB-7334B-B              |
| 1550 ± 20/1625 ± 10           | 40/38              | 40.5/39            | 3/3        | 15/16       | FTB-7434B-B              |
| 1550 ± 20/1625 ± 10           | 42/40              | 43.5/41.5          | 3/3        | 15/16       | FTB-7534B-B              |
| Triple-Wavelength module      |                    |                    |            |             |                          |
| 1310 ± 20/1550 ± 20/1625 ± 10 | 41/39/38           | 42.5/40.5/39.5     | 3/3/3      | 8/10/10     | FTB-74234C-B             |

Other OTDR configurations are available. Contact your EXFO representative for more information.

#### **General Specifications**

| Models                                     |          | 200B-C/D series  | 200B-B series  | 300B-B/400B-B/ 500B-B/4234C-B series                             |
|--|----------|--|--|--|
| Distance range (km)                        |          | 0.625, 1.25, 2.5, 5, 10, 20, 40                                  | 1.25, 2.5, 5, 10, 20, 40, 80, 160                                      | 1.25, 2.5, 5, 10, 20, 40, 80, 160, 260                           |
| Pulse width (ns)                           | 850 nm:  | 10, 30, 100  | 10, 30, 100, 275, 1000,  | 10, 30, 100, 275, 1000, 2500,                                    |
|  | 1300 nm: | 10, 30, 100, 275, 1000   | 10 000   | 10 000, 20 000   |
| Linearity <sup>®</sup> (dB/dB)             |          | ± 0.05   | ± 0.05   | ± 0.05   |
| Loss threshold (dB)                        |          | 0.01   | 0.01   | 0.01   |
| Loss resolution (dB)                       |          | 0.001  | 0.001  | 0.001  |
| Sampling resolution (m)                    |          | 0.08 to 5  | 0.08 to 5  | 0.08 to 5  |
| Sampling points                            |          | Up to 16 000   | Up to 32 000   | Up to 52 000   |
| Distance uncertainty <sup>6</sup>          |          | ± (1 m + 0.0025 % x distance)                                    | <u>+</u> (1 m + 0.0025 % x distance)                                   | <u>+</u> (1 m + 0.0025 % x distance)                             |
| Measurement time                           |          | User-defined (60 min maximum)                                    | User-defined (60 min maximum)  | User-defined (60 min maximum)                                    |
| Real-time refresh                          |          | < 1 s  | < 1 s  | < 1 s  |
| Stable source output power <sup>9</sup> (o | lBm)     | -7   | -10  | -5   |
| Visual fault locator (optional)            |          | Laser, 650 $\pm$ 10 nm CW, $P_{\text{out}}$ maximum: 800 $\mu W$ | Laser, 650 $\pm$ 10 nm CW, $P_{\mbox{\tiny out}}$ maximum: 800 $\mu W$ | Laser, 650 $\pm$ 10 nm CW, $P_{\text{out}}$ maximum: 800 $\mu W$ |

#### Notes

- 1. All specifications are for a temperature of 23 °C (73 °F) with a FC/PC connector unless otherwise specified.
- 2. Typical dynamic range with a three-minute average at SNR = 1.
- 3. Typical dead zone of multimode modules for reflectance below -35 dB, using a 10 ns pulse.
- 4. Typical dynamic range on NZDSF with a three-minute average at SNR = 1.

5. Typical dead zone of singlemode modules for reflectance below -45 dB, using a 10 ns pulse.

- 6. Does not include uncertainties due to fiber index and sampling resolution.
- 7. ORL measurement not available for this module.
- 8. Does not include uncertainty due to sampling resolution.
- 9. Typical output power value.

#### **Safety**







LASER SAFETY 21 CFR 1040.10 IEC 60825-1:Ed.1:1998

CLASS 1 LASER PRODUCT CLASS 3A LASER

## **Ordering Information**

#### Single and Dual Wavelength OTDR FTB-7XXXB-X-XX-(XXX-XX) Г X: Power level XX: OTDR code X: Fiber type XX: Connector code 2 = Low power02 = 1310 nm SM or $\mathbf{B}$ = Singlemode fiber EI = UPC Universal Interface 1300 nm MM1 **3** = Regular power 9/125 µm EA = APC Universal Interface 03 = 1550 nm SM 4 = High power C = Multimode fiber 04 = 1625 nm SM 5 = Ultra-high power 50/125 µm EUI: The fixed baseplate (EI or EA) must be ordered 05 = 1410 nm SM D = Multimode fiber with a removable universal connector adapter (EUI-XX). 12 = 850/1300 nm MM 62.5/125 μm Please specify one EUI from the following list: 23 = 1310/1550 nm SM EUI-28 = DIN 47256 (LSA) EUI-90 = ST (EI only)34 = 1550/1625 nm SM Note EUI-76 = HMS-10/AG (El only) EUI-91 = SC 1. Depends on selected wavelength type. EUI-89 = FC narrow key EUI-95 = E-2000 -XXX-XX : VFL connector code Triple Wavelength OTDR VFL-50 = FC/PCFTB-74234C-B-XX-(XXX-XX) VFL-54 = SC/PCVFL-74 = ST/PC

High power OTDR (1310/1550/1625) for single mode fiber.

## FTB-100B Mini-OTDR Kits

| Kit/Syste | em                 |  |                                      |
|-----------|--------------------|--|--------------------------------------|
| TK100B-   | -PP-MM-MM          | FTB-100B-OTDR Kit  | Notes                                |
|           | Platform           | Description  | PP: Platform code available below    |
| P5-ZZ     |                    | FTB-100B-N4-ZZ, modular mainframe unit, 18.8 cm (7.4 in) monochrome touchscreen display, 32 MB RAM | Z: Replace Z with specified language |
| P6-ZZ     |                    | FTB-100B-N4-D2-ZZ, modular mainframe unit, 19.6 cm (7.7 in) color touchscreen display, 32 MB RAM   | GA = English, French, Spanish,       |
| P7-ZZ-X   | X                  | FTB-100B-N4-PM-ZZ, modular mainframe unit (1 module capacity), 18.8 cm (7.4 in) monochrome         | German, Italian, Czech and Russian   |
|           |                    | touchscreen display (transflective), 32 MB RAM with power meter InGaAs detector                    | GB = Traditional Chinese and GA      |
| P8-ZZ-X   | X                  | FTB-100B-N4-D2-PM-ZZ, modular mainframe unit (1 module capacity), 19.6 cm (7.7 in) color           | GC = Simplified Chinese and GA       |
|           |                    | touchscreen display, 32 MB RAM with power meter InGaAs detector                                    | MM: OTDR module code                 |
| First OT  | DR Module          | Description  | Please specify connector type for    |
| D1-XX     |                    | FTB-7212B-C-El-XX MM OTDR Module, 850/1300 nm, 23/27 dB (50/125 μm)                                | each OTDR module (singlemode,        |
| D2-XX     |                    | FTB-7212B-D-EI-XX MM OTDR Module, 850/1300 nm, 25/29 dB (62.5/125 μm)                              | multimode).                          |
| D3-XX     |                    | FTB-7223B-B-EI-XX SM OTDR Module, 1310/1550 nm, 32/31 dB (9/125 μm)                                |                                      |
| D4-XX     |                    | FTB-7323B-B-EI-XX SM OTDR Module, 1310/1550 nm, 37.5/35.5 dB (9/125 μm)                            |                                      |
| D5-XX     |                    | FTB-7423B-B-EI-XX SM OTDR Module, 1310/1550 nm, 40/38 dB (9/125 μm)                                |                                      |
| D6-XX     |                    | FTB-7434B-B-EI-XX SM OTDR Module, 1550/1625 nm, 40/38 dB (9/125 µm)                                |                                      |
| D7-XX     |                    | FTB-7523B-B-EI-XX SM OTDR Module, 1310/1550 nm, 45/43 dB (9/125 μm)                                |                                      |
| D8-XX     |                    | FTB-7534B-B-EI-XX SM OTDR Module, 1550/1625 nm, 42/40 dB (9/125 μm)                                |                                      |
| D9-XX     |                    | FTB-7334B-B-EI-XX SM OTDR Module, 1550/1625 nm, 35.5/35 dB   |                                      |
| D10-XX    |                    | FTB-74234C-B-EI-XX SM OTDR Module, 1310/1550/1625 nm, 41/39/38 dB                                  |                                      |
| Second    | <b>OTDR Module</b> | Description  |                                      |
| F1-XX     |                    | FTB-7212B-C-EI-XX MM OTDR Module, 850/1300 nm, 23/27 dB (50/125 μm)                                |                                      |
| F2-XX     |                    | FTB-7212B-D-EI-XX MM OTDR Module 850/1300 nm, 25/29 dB (62.5/125 µm)                               |                                      |
| F3-XX     |                    | FTB-7404B-B-EI-XX SM OTDR Module, 1625 nm, 38 dB (9/125 µm)  |                                      |
| F4-XX     |                    | FTB-7504B-B-EI-XX SM OTDR Module, 1625 nm, 40 dB (9/125 μm)  |                                      |
|           |                    |  |                                      |

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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. **Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.** For the most recent version of this spec sheet, please go to the EXFO website at http://www.exfo.com/support/techdocs.asp In case of discrepancy, the Web version takes precedence over any printed literature.

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