FTB-200 Compact Platform
THE INTELLIGENT PLATFORM BUILT FOR THE SUPERTECH

The FTB-200 delivers the best performance on the market for optical, Ethernet and multiservice testing.

KEY FEATURES

Connects anywhere: USB, 3G, Wi-Fi, VPN and Bluetooth

Loaded with utilities: all the tools required to maximize field testing, plus third-party applications

Like a PC: Intel processor with Windows Embedded Standard operating system

EXFO Connect-compatible: automated asset management; data goes through the cloud and into a dynamic database

GPS capabilities: accurate coordinates under the same conditions as a regular satellite GPS receiver
THE POWER YOU NEED, NO MATTER THE APPLICATION

The FTB-200 delivers the processing power of a high-end platform for a variety of advanced applications—all in a conveniently sized go-anywhere field-testing tool.

### CWDM Turn-Up Testing
Integrate two metro/CWDM OTDRs to test through CWDM-based mux/demux at ITU-recommended wavelengths.

### 40G and ROADM Commissioning
House an OSA into a compact portable solution for fast and accurate DWDM commissioning and high-speed networking—up to 40 Gbit/s.

### Multiservice Testing
Simultaneously run a 10 gigabit next-generation SONET/SDH analyzer, as well as 1 gigabit and 10 gigabit Ethernet analyzers, delivering IPTV test capabilities and TCP throughput assessment.

### Fiber Characterization and Construction
Combine PMD, CD and OTDR testing in a single solution, and incorporate an OTDR with a multitest module, for in-depth link characterization.

### Business Service Activation
Join an FTTx PON/MDU OTDR featuring a dynamic range of up to 39 dB with a 1/10 gigabit Ethernet testing module, to simplify and speed up the deployment of Ethernet services.

### Carrier Ethernet Testing from 10 Mbit/s to 10 Gbit/s
Benefit from a comprehensive suite of Ethernet testing capabilities, including EtherSAM (ITU-T Y.1564), for turning up and troubleshooting mobile backhaul, commercial and wholesale services.
ONE PLATFORM, OVER 30 MODULES
Optimized for all phases of the network lifecycle, the FTB-200 houses any of EXFO’s FTB one- or two-slot modules to meet your evolving needs. Configure your platform by combining optical, transport and datacom modules to cover a wide range of applications. Offering power, speed and modularity in a compact format, the FTB-200 is the perfect tool for the field.

Optical Test Modules
Discover the industry’s most renowned line of OTDRs, the most advanced dispersion analyzers and optical spectrum analyzers.

<table>
<thead>
<tr>
<th>OPTICAL TEST MODULES</th>
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</tr>
</thead>
<tbody>
<tr>
<td>OTDR</td>
<td>FTB-7xxx (D-E Series)</td>
</tr>
<tr>
<td>MultiTest Module</td>
<td>FTB-3930</td>
</tr>
<tr>
<td>Optical Spectrum Analyzers</td>
<td>FTB-5240S</td>
</tr>
<tr>
<td>Single-Ended Dispersion Analyzer</td>
<td>FTB-5700</td>
</tr>
</tbody>
</table>

Transport and Datacom Test Modules
Choose from the most compact and powerful SONET/SDH, OTN, Fibre Channel and Ethernet analyzers—the new standards in next-generation network testing.

<table>
<thead>
<tr>
<th>TRANSPORT AND DATACOM TEST MODULES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>DSn/PDH and SONET/SDH Electrical Test Module</td>
<td>FTB-8105 Transport Blazer</td>
</tr>
<tr>
<td>SONET/SDH Test Module</td>
<td>FTB-8115 Transport Blazer</td>
</tr>
<tr>
<td>Next-Generation SONET/SDH Test Modules</td>
<td>FTB-8120/8130 Transport Blazer</td>
</tr>
<tr>
<td>Multiservice Test Modules</td>
<td>FTB-8120NGE/8130NGE Power Blazer</td>
</tr>
<tr>
<td>Ethernet Test Modules</td>
<td>FTB-8510B Packet Blazer</td>
</tr>
<tr>
<td>10 Gigabit Ethernet Test Module</td>
<td>FTB-8510G Packet Blazer</td>
</tr>
<tr>
<td>Fibre Channel and Ethernet Test Modules</td>
<td>FTB-8525/8535 Packet Blazer</td>
</tr>
</tbody>
</table>
DELIVERING UNIQUE PERFORMANCE

Providing the same compatibility as its predecessor, the FTB-200 platform now leverages a powerful Intel ATOM processor to deliver unmatched speed and performance for the most demanding test applications.

**OSA**

- **IN-BAND 64 ACQUISITIONS**
  - Baseline
  - 10X faster
  - FTB-200

- **RE-ANALYSIS**
  - Baseline
  - 14X faster
  - FTB-200

- **TRACE LOADING**
  - Baseline
  - 20X faster
  - FTB-200

**OTDR**

- **RE-ANALYSIS**
  - Baseline
  - 8X faster
  - FTB-200

- **REAL-TIME ACQUISITION**
  - Baseline
  - 44% faster
  - FTB-200

**T&D**

- **AVERAGE EXECUTION**
  - Baseline
  - 3X faster
  - FTB-200

- **RESULT PROCESSING**
  - Baseline
  - 10X faster
  - FTB-200
SOFTWARE APPLICATIONS

ConnectorMax

Providing lightning-fast results in the first step of fiber-link testing, ConnectorMax is the industry's first platform-based, automated inspection application; it delivers quick pass/fail assessment of connector endfaces and is specifically designed to save both time and money in the field.

THIRD-PARTY TEST TOOLS

Wireshark
This live-network packet-capture utility makes it possible to look “inside” the packets and obtain data such as transmission time, source, destination, protocol type, etc. Users can then diagnose a problem or root out suspicious behavior. Wireshark is a standard utility on all FTB-200 platforms.

JPerf
This TCP performance testing tool can create TCP and UDP data streams, which measure the throughput of a network that is carrying them. Thanks to various user-definable parameters, technicians can rely on JPerf to optimize or tune a network under test.

Network Stumbler
Network Stumbler verifies wireless network configurations, enabling field technicians to identify areas that have poor coverage or wireless interference, and helping them to aim antennas for full effect and find unauthorized access points.

SOFTWARE UTILITIES

Update Manager
Ensure that your entire fleet of platforms is up-to-date with the latest software, and easily manage your maintenance contracts.

VNC configuration
The Virtual Network Computing utility allows technicians to easily communicate settings to remote colleagues.

Microsoft Internet Explorer
Access the Web directly from your platform interface.

Bluetooth file-sharing
Share files from your FTB-200 to any Bluetooth-enabled device.

Wi-Fi connection
Display available Wi-Fi connections and save your default settings.
CONNECTED ANYWHERE, ANYTIME

The value of connectivity resides in the ability to connect your platform anywhere, at any time. That's why we have equipped our platforms with the technology to be as flexible as possible. Whether to transfer data to the cloud, to a device or to acquire a platform's location via GPS, you have what it takes.

Secure VPN communications

We have brought VPN capabilities to our platforms to provide a secured connection for those who need it. And, we cover 99% of the world's VPN connection types, thanks to Cisco, Juniper and Checkpoints* technologies. Secure communications are now within your reach.a,b

3G mobility

Our 3G universal USB angle is ready to house most service provider SIM cards. In fact, it is compatible with over 80% of the worldwide 3G coverage offered by all the main 3G service providers using unlocked SIM cards.b,c

Remote control

Use remote assistance to troubleshoot units in the field, trigger tests remotely or help a technician with a problem. Working without it is hard to imagine.

Instant messaging

Since our platforms are Windows-based, they are just like a PC. You can install chat tools to quickly communicate with your team.

Notes

a. Please refer to the User Guide to learn how to set up your VPN connection, as required by your IT department.
b. Current FTB platform must be updated to the latest version supporting these options.
c. Please refer to the User Guide when installing this device on your compatible FTB platform.
EXFO Connect

EXFO CONNECT MAKES YOUR DATA MEAN BUSINESS
EXFO Connect lets you store and push equipment and test data automatically to our cloud-based servers, allowing you to streamline test operations, from build-out to maintenance.

Centralize and automate inventory management to provide global visibility
Test Equipment Manager, a component of EXFO Connect, deals with the constant demands of software updates, keeping track of the equipment and ensuring that field technicians involved in network construction, maintenance or troubleshooting are properly equipped. The best part? It’s all automated.

Store and consolidate test data across the entire company
Test Data Manager, another component of EXFO Connect, allows managers to make the most of their test investment. It extracts the full value out of the generated test data to help you optimize network efficiency, all through a highly automated, secure and centralized environment.

Create and customize reports from collected data
EXFO Connect tracks and updates your test gear, giving you fingertip access to all the data and allowing for quick correlation and tailored reporting for any member of the organization.
UPDATE MANAGER
Stay current with the FTB-1 Update Manager, which enables you to easily manage the applications developed for your test solution. Thanks to EXFO’s feature enhancement program, it has never been easier to benefit from our latest innovation. Based on customer feedback, acute market trend analysis and compliance with the latest standards, EXFO is committed to ensuring that your product is at its best.

DESIGNED FOR EFFICIENCY

1. LED indicators
2. Switch application and keyboard
3. Knob
4. Power meter and VFL
5. Battery
6. Stylus
7. Two slots to house modules
8. USB 2.0 port
9. 1 GigE port
10. FIP port
11. Head set
12. AC adapter
13. Two extra USB 2.0 ports
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Display</strong></td>
<td>Touchscreen, color, 640 x 480 TFT 163 mm (6.5 in)</td>
</tr>
<tr>
<td><strong>Interfaces</strong></td>
<td>Two USB 2.0 ports</td>
</tr>
<tr>
<td></td>
<td>RJ-45 LAN 10/100/1000 Mbit/s</td>
</tr>
<tr>
<td></td>
<td>Fiber inspection probe connector port (video)</td>
</tr>
<tr>
<td></td>
<td>Built-in Bluetooth and Wi-Fi (hardware option)</td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>8 GB internal memory (flash)</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>Rechargeable lithium-ion batteries</td>
</tr>
<tr>
<td></td>
<td>8 hours of operation as per Telcordia (Bellcore) GR-196</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>AC/DC adapter, input 100-240 VAC, 50-60 Hz,</td>
</tr>
<tr>
<td></td>
<td>1.6 A max, output: 24 VDC, 90 W</td>
</tr>
<tr>
<td><strong>Computer</strong></td>
<td>Intel ATOM processor</td>
</tr>
<tr>
<td></td>
<td>Windows Embedded Standard</td>
</tr>
</tbody>
</table>

### GENERAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Temperature</strong></td>
<td>0 °C to 50 °C (32 °F to 122 °F)</td>
</tr>
<tr>
<td></td>
<td>−40 °C to 60 °C (−40 °F to 140 °F)</td>
</tr>
<tr>
<td><strong>Relative humidity</strong></td>
<td>0 % to 95 % non-condensing</td>
</tr>
<tr>
<td><strong>Size (H x W x D)</strong></td>
<td>322 mm x 197 mm x 109 mm</td>
</tr>
<tr>
<td></td>
<td>(12 11/16 in x 7 ¾ in x 4 5/16 in)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>2.1 kg (4.6 lb)</td>
</tr>
<tr>
<td><strong>Vibration</strong></td>
<td>&lt;1.5 g at 10 Hz to 500 Hz (on three main axes)</td>
</tr>
<tr>
<td><strong>Mechanical shock</strong></td>
<td>&lt;760 mm on six sides and eight main edges (compliant to GR-196-CORE)</td>
</tr>
</tbody>
</table>

### ACCESSORIES

<table>
<thead>
<tr>
<th>Accessory</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FP4S</td>
<td>400x Fiber Inspection Probe</td>
</tr>
<tr>
<td>GP-2028</td>
<td>Computer security cable kit</td>
</tr>
<tr>
<td>FP4D</td>
<td>200x/400x Fiber Inspection Probe</td>
</tr>
<tr>
<td>GP-2112</td>
<td>3G Universal USB Dongle</td>
</tr>
<tr>
<td>GP-10-070</td>
<td>Rigid FTB-200 carrying case</td>
</tr>
<tr>
<td>GP-2113</td>
<td>GPS USB Dongle</td>
</tr>
<tr>
<td>GP-10-072</td>
<td>Semi-rigid FTB-200 carrying case</td>
</tr>
<tr>
<td>GP-2116</td>
<td>Single-slot storage module</td>
</tr>
<tr>
<td>GP-302</td>
<td>USB mouse</td>
</tr>
<tr>
<td>GP-2137</td>
<td>USB-to-RS-232 converter</td>
</tr>
<tr>
<td>GP-1002</td>
<td>Headset</td>
</tr>
<tr>
<td>GP-2138</td>
<td>DC car adapter/inverter</td>
</tr>
<tr>
<td>GP-1008</td>
<td>VFL adapter (2.5 mm to 1.25 mm)</td>
</tr>
<tr>
<td>GP-2144</td>
<td>USB 16G micro-drive</td>
</tr>
<tr>
<td>GP-2001</td>
<td>USB keyboard</td>
</tr>
<tr>
<td>GP-2155</td>
<td>Carry-on size backpack</td>
</tr>
<tr>
<td>GP-2016</td>
<td>10 feet RJ-45 LAN cable</td>
</tr>
</tbody>
</table>

### PM-200 BUILT-IN POWER METER SPECIFICATIONS

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Calibrated wavelengths (nm)</strong></td>
<td>850, 1300, 1310, 1490, 1550, 1625, 1650</td>
</tr>
<tr>
<td><strong>Optional CWDM calibrated wavelengths (nm)</strong></td>
<td>1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610, 1633, 1625</td>
</tr>
<tr>
<td><strong>Power range (dBm)</strong></td>
<td>10 to −86 (InGaAs) 26 to −64 (GeX)</td>
</tr>
<tr>
<td><strong>Uncertainty (%)</strong></td>
<td>±5 % ± 3 pW (InGaAs) ±5 % ± 0.4 nW (GeX)</td>
</tr>
</tbody>
</table>
| **Display resolution (dB)** | InGaAs: 0.01 = max to −76 dBm 0.1 = −76 dBm to −86 dBm 1 = −86 dBm to min  
                              | GeX: 0.01 = max to −54 dBm 0.1 = −54 dBm to −64 dBm 1 = −64 dBm to min |
| **Automatic offset nulling range** | Max power to −63 dBm for InGaAs  
                                      | Max power to −40 dBm for GeX |
| **Tone detection (Hz)** | 270/1000/2000 |

### VISUAL FAULT LOCATOR (VFL) (OPTIONAL)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Laser</strong></td>
<td>650 nm ±10 nm</td>
</tr>
<tr>
<td><strong>CW</strong></td>
<td>650 nm ±10 nm</td>
</tr>
<tr>
<td><strong>Typical P_{out}</strong></td>
<td>in 62.5/125 µm: 3 dBm (2 mW)</td>
</tr>
</tbody>
</table>

### LASER SAFETY

21 CFR 1040.10 AND IEC 60825-1:2007  
CLASS 3R WITH VFL OPTION

### Notes

- a. All specifications valid at 23 °C (73 °F).  
- b. Not including internal batteries. Battery maximum storage temperature: 60 °C (140 °F).  
- c. The selected model may change without notice.  
- d. At 23 °C ± 1 °C, 1550 nm and FC connector. With modules in idle mode. Battery operated.  
- e. Up to 5 dBm.  
- f. ±0.05 dB, from 18 °C to 28 °C.
### FTB-200 Compact Platform

#### ORDERING INFORMATION

**Model**  
FTB-200-v2 = Compact modular platform

**Display**  
S1 = TFT active screen  
S2 = Outdoor-enhanced screen

**Wi-Fi/Bluetooth hardware option**  
00 = Without RF components  
RF = With RF capability (Wi-Fi and Bluetooth)

**Power meter**  
00 = Without power meter  
VPM2X = VFL platform; PM; GeX detector  
VPM2X-CWDM = VFL platform; PM; GeX detector; CWDM wavelengths calibrated (from 1270 nm to 1610 nm)

**Software option**  
00 = Without any software option  
IPT = Ping and traceroute functionalities  
FPSA = ConnectorMax analysis software  
FPSAMIF = ConnectorMax kit: single-fiber analysis and reporting; multiple-fiber connector assessment wizard and reporting  
Expert-VoIP = RTP-based call testing software application, including packet loss analysis, jitter measurement and complete voice quality metrics  
Expert-IP = IP/Ethernet test suite, with tests including FTP performance, HTTP availability, VLAN scan, LAN discovery, ping, traceroute, IP/Ethernet port statistics (license for a single platform)  
Expert-IPTV = IPTV test suite  
Expert-TPP = Triple-play bundle for voice, video and data testing; includes Expert IP Test Tools, Expert IPTV Test Tools, Expert VoIP Test Tools and Expert SIP  
Expert-SIP = SIP call signaling support  
Expert-SCCP = SCCP call signaling support  
Expert-H.323 = H.323 call signaling support  
Expert-H.248 = H.248/Megaco call signaling support

**Probe**  
00 = Without probe  
FP4S = Inspection probe (400x)  
FP4D = Inspection probe (200x/400x)

**Connector adapter**  
FOA-12 = Biconic  
FOA-14 = NEC D4; PC, SPC, UPC  
FOA-16 = SMA/905, SMA-906  
FOA-22 = FC/PC, FC/SPC, FC/UPC, FC/APC  
FOA-26 = DIN 47256, DIN 47256/APC  
FOA-32 = ST; ST/PC, ST/SPC, ST/UPC  
FOA-34 = SC; SC/PC, SC/SPC, SC/UPC, SC/APC)  
FOA-78 = Radial EC  
FOA-96B = E-2000 E-2000/APC  
FOA-98 = LC  
FOA-99 = MU  
WC2 = FOA-FC-ST-SC-LC

**Example:** FTB-200-v2-S1-RF-VPM2X-FOA-16-FP4S-IPT-FPSA

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**Notes**

a. If Expert VoIP is selected.

b. If power meter is selected.

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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.

For the most recent version of this spec sheet, please go to the EXFO website at [www.EXFO.com/specs](http://www.EXFO.com/specs).

In case of discrepancy, the Web version takes precedence over any printed literature.