

FTB-500

NETWORK TESTING



Boundless capabilities. Expert design.

The true enabler of next-generation network testing.

- Build your platform around your own test requirements, combining new and existing applications
- Achieve faster setups, faster testing and faster reporting thanks to unmatched crunching power
- Stay connected, wherever, whenever—send reports via mobile communication, launch tests from a remote location, and download tutorials
- Choose peace of mind—universal FTB module compatibility and proven expertise in multimodular engineering



Next-Generation Network Assessment



EXFO

EXPERTISE REACHING OUT

The all-new FTB-500

Testing unlimited.

The result of over 10 years of proven leadership in multimodular test platforms, the FTB-500 a whole new spectrum of network testing possibilities, a whole new testing paradigm: more advanced applications, faster setups, test cycles and reporting, wireless communication and reporting, and universal compatibility with all EXFO FTB modules, past, present and future.

Designed for network experts, this high-end, highly evolutive platform enables true next-generation network testing.

EXFO modular test platforms: a history of market innovations

1996

First PC-based modular platform

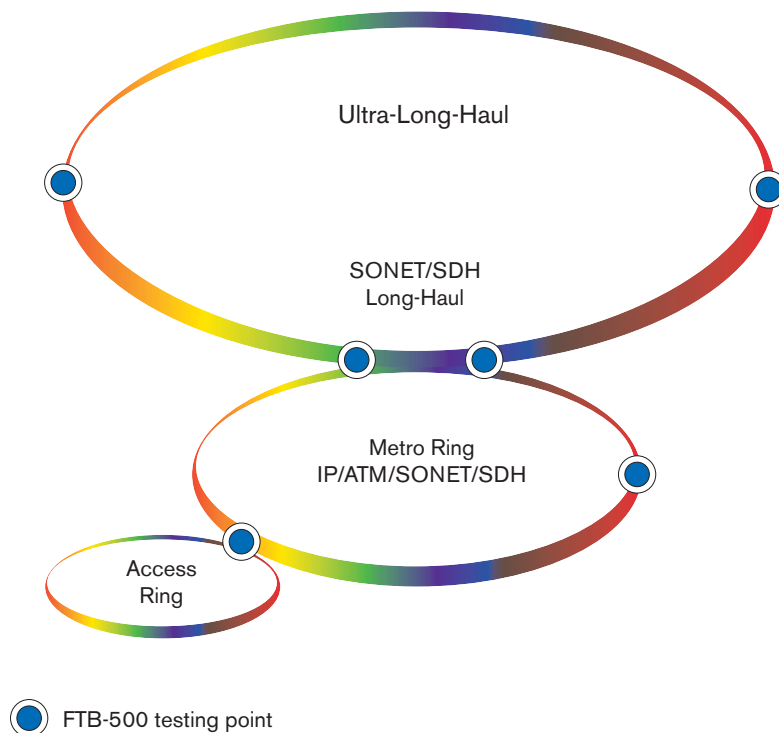
2006

First multimediuim, multilayer platform specifically built for supertechs

2007

First handheld modular platform to integrate optical, copper, transport and datacom test capabilities

The latest evolution in EXFO's time-proven multimodular test platforms, the FTB-500 provides network experts with the power to combine more test applications than ever before—and run them faster than ever before.



The FTB-500 can host all the test modules and applications required at all steps of the network lifecycle: construction, commissioning, service activation, maintenance and troubleshooting.

Shape it as you see fit.

Massive processing power. Mix-and-match flexibility.
Right out of multi-application wonderland.

The FTB-500 platform brings you new, highly advanced applications and pushes your current ones' efficiency to new heights. So go ahead: break new grounds, set new test performance standards, tame new technologies. Benefit from an all-in-one platform that you can build around your most unique requirements.

Distributed
PMD

Distributed PMD analysis

Single-ended, span-by-span measurement of PMD, enabling targeted fiber upgrades and cost-effective deployment of 10, 40 and 100 Gbit/s transmission.

Fiber
analysis

Full fiber characterization

PMD, CD and OTDR testing combined in a single solution, for in-depth fiber characterization. Run FastReporter post-processing software while performing your acquisitions, for faster data analysis and report generation—directly on-site.

100
Gbit/s

100 Gbit/s testing applications

The most advanced hardware, ready for future 100 Gbit/s applications.

ROADM/
POTS
40
Gbit/s

ROADM/POTS and 40 Gbit/s testing

- Integrated optical and transport testing in a portable solution supporting OC-768, STM-256, OTU3 as well as true in-band OSNR for ROADMs, 40G transmission and UDWDM signals.
- All-in-one transport and datacom configuration supporting:
 - DSO/E0 to OC-768/STM-256
 - OTU1/OTU2/OTU3/OTU1e/OTU2e with FEC
 - 10/100M, Gigabit Ethernet and 10 Gigabit Ethernet (LAN/WAN)
 - 1x/2x/4x/10x Fibre Channel
 - Next-generation SONET/SDH (GFP, LO/HO VCAT and LCAS)



A broader scope of tests. A broader range of modules.
A breadth of fresh air.

The all-new FTB-500 houses any of EXFO's FTB plug-and-play modules, enabling you to reconfigure your test solution as your test needs evolve. Combine physical and optical characterization applications with transport and datacom test modules covering next-generation 10G, 40G and 100G analysis.



Optical

Optical test modules

Choose from the industry's most renowned line of OTDRs and most advanced dispersion analyzers.

OTDR series	FTB-7xxx	MultiTest Module	FTB-3930
Optical Spectrum Analyzers	FTB-5230 FTB-5240 FTB-5240B FTB-5240S		
Single-Ended Dispersion Analyzer	FTB-5700	Multiwavelength Meter	FTB-5320
Distributed PMD Analyzer	FTB-5600 <i>Industry first!</i>	PMD Analyzer	FTB-5500B
Optical Switch	FTB-9100	Chromatic Dispersion Analyzer	FTB-5800

Transport and datacom

Transport and datacom test modules

Discover the most compact and powerful SONET/SDH, OTN, Fibre Channel and Ethernet analyzers—the new standards in next-generation network testing.

40/43 Gigabit SONET/SDH Test Module	FTB-8140 Transport Blazer
Next-Generation SONET/SDH Test Modules	FTB-8120/8130 Transport Blazer
SONET/SDH Test Module	FTB-8115 Transport Blazer
DSn/PDH and SONET/SDH Electrical Test Module	FTB-8105 Transport Blazer
Multiservice Test Modules	FTB-8120NGE/8130NGE Power Blazer
10 Gigabit Ethernet Test Module	FTB-8510G Packet Blazer
Ethernet Test Modules	FTB-8510/8510B Packet Blazer
Fibre Channel and Ethernet Test Modules	FTB-8525/8535 Packet Blazer
Fibre Channel Test Module	FTB-8520 Packet Blazer SAN

Guaranteed compatibility with all future 100G test modules

Enjoy testing at your swift pace.

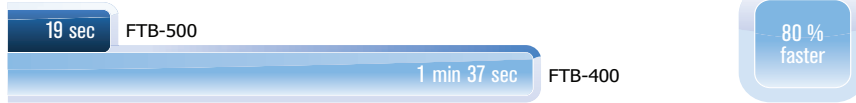
Faster setups. Faster testing.
Faster everything.

When you're ready to start your day, you want to be able to actually start it—quick. The FTB-500 “understands” this, as it lets you expedite the setup process and get down to testing, so you can get to your next location faster and breathe through your tight day-to-day schedule.

Loading a 10G BER test configuration from your Favorites list



Generating a .pdf file for a 10G BER test



Setting up a complex test case:

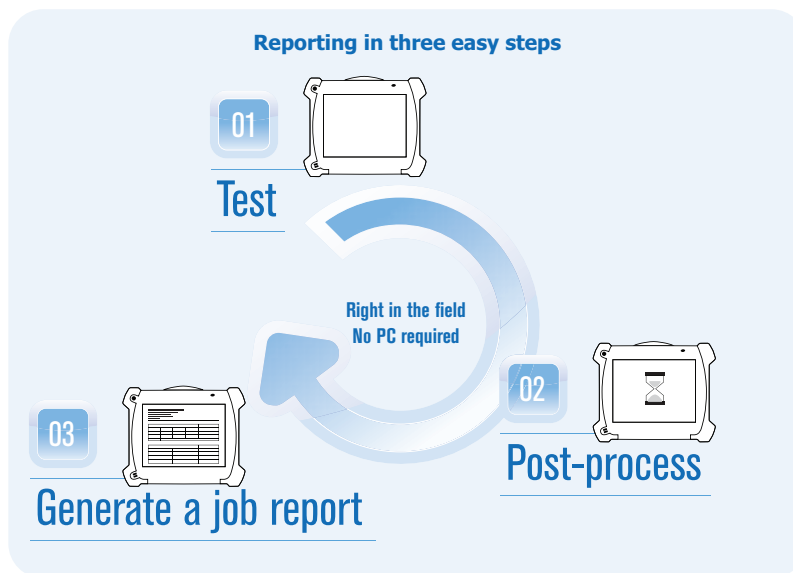
OTU2/ODU2 + ODU1 (all TCMs enabled)/STM-16/LOP VCG/AU-4/TU-11-64v/BER



Timing comparison between the new FTB-500 and the FTB-400.

Generate your reports. Shut down the platform. Go straight home.

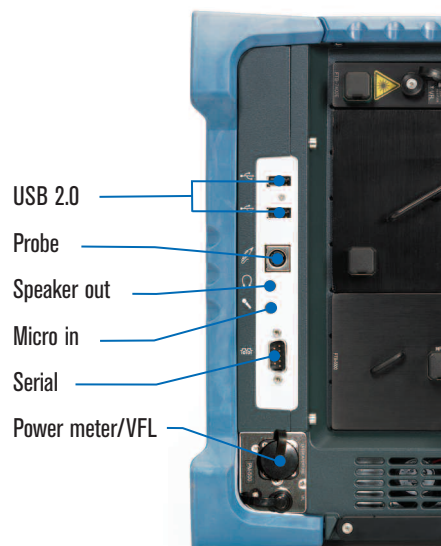
Running on Windows XP, the FTB-500 platform allows you to generate reports in the field, without having to use a desktop PC. Thanks to the FastReporter post-processing and reporting software, you can perform total fiber characterization, launch a report on-site combining PMD, CD and OTDR results, and be done.



Designed for portability. Manageability. Viewability. In short, for easy-ability.

The field brings its fair share of challenges: hard-to-reach locations, dark environments, rain, cold, sunlit environments and other conditions that can complicate your job. Designed to deliver a new level of user-friendliness, the FTB-500 makes it all much easier.

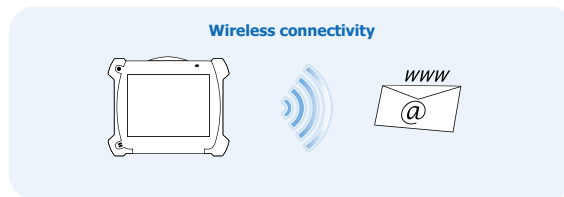
- Conveniently located handles and first-class ergonomics, for easy carrying and operation
- Angled stance for easier viewing of results
- Easily accessible ports and stylus



Allow the world to connect with you.

Downloadable tutorials. Real-time information portal.
Just like bringing along your team of experts.

When a question arises, you need answers, easily accessible. The FTB-500 lets you download and view tutorials directly on its screen. It also lets you access EXFO's Next-Gen Networking Blog, which explores the latest test approaches and provides key insight into commonly encountered testing challenges. Keeping in touch with up-to-the-minute expertise has never been easier.



It's your platform. You control it.
Whether you're on-site or not.

Sometimes, there is just no way around it: you need to be in two places at the same time, carrying out test cycles on-site, and overseeing the operations from a remote location. Which is exactly what the FTB-500 enables, using Windows-based remote desktop capabilities as well as VNC.

Universal, wireless connectivity. Total reporting freedom.
No strings attached.



Whether you are downtown or in the middle of nowhere, you can transmit your test results as soon as you're ready. Because the FTB-500 is also ready—for wireless communication, that is. Send you reports either through mobile networking, or Wi-Fi or Bluetooth connection, and share your files whenever you need to.

Let others take the risk.

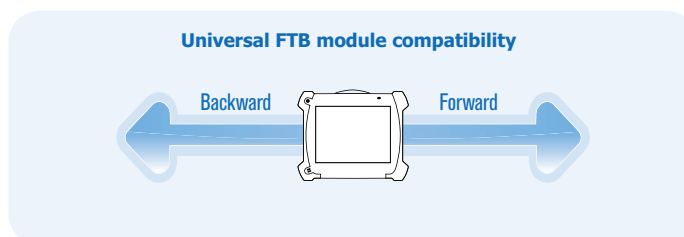
Modular platform design expertise. Proven innovation leadership.
Leap into next-gen—with a safety net.

Having pioneered the modular testing approach over 10 years ago, EXFO has established itself as the proven leader in multimodule network test platforms. Combined with our steadfast focus on market-driven innovation, this makes the FTB-500 the most advanced and reliable test platform for today's network experts.



Backward compatible. Forward compatible.
What an evolutive platform should be.

Designed to secure both your past and future investments, the FTB-500 can house any of EXFO's FTB modules—the tried and tested ones that you already own, as well as next-generation modules that will be available in the future. Plus, its open architecture allows for frequent software and hardware upgrades, enabling your platform to evolve with your testing needs and helping you make the most of your investment. Shouldn't boundless testing capabilities come with unlimited value for your money?



SPECIFICATIONS ^a

Central processing unit (CPU)	Intel Core 2 Duo
Display	Touchscreen, color TFT, 800 x 600 TFT, 307 mm (12.1 in)
Interfaces	Ethernet port Fiber probe port ExpressCard port 34 mm format Serial RS-232 port Monitor port Four USB 2.0 ports Standard PC Mic in and Speaker out ports (3.5 mm)
Storage	Internal 80 GB hard drive minimum with G-shock protection Flash USB drive (1 GB, 2 GB and 8 GB optional) ExpressCard memory card (16 GB and up, optional) External USB read/write DVD drive (optional)
Batteries ^b	Rechargeable Li-ion, smart battery (three batteries), total 207 W•h
Power supply (internal)	100–240 VAC, 50/60 Hz

GENERAL SPECIFICATIONS

Temperature	
operating	0 °C to 50 °C (32 °F to 122 °F)
storage ^c	–40 °C to 70 °C (–40 °F to 150 °F)
Relative humidity	0 % to 95 % (non-condensing)
Size (H x W x D)	366 mm x 296 mm x 216 mm (11 11/16 in x 14 7/16 in x 8 1/2 in)
Weight ^d	10.9 kg (24 lb)
CE compliance, CSA, EU WEEE, China RoHS	

ACCESSORIES

GP-2090	Spare Li-ion smart battery	GP-2098	Spare shoulder strap
GP-2016	RJ-45 LAN cable (10 ft)	GP-2102	Spare-battery-compartment door
GP-2096	USB A-A for master-to-master communication	GP-2099	LCD protector
GP-2101	Cable RS232 straight F-M	GP-2051	Extra stylus
GP-2007	USB memory stick (1 GB)	GP-2028	Computer security cable kit
GP-2019	USB memory stick (2 GB)	GP-2100	DVD ±R writable 8x external USB 2.0
GP-2092	USB memory stick (8 GB)	GP-2107	Replacement stand
GP-2094	ExpressCard memory (16 GB)	GP-2108	Spare fuses
GP-2093	ExpressCard Wi-Fi	GP-2109	Replacement handle
GP-2091	USB keyboard (USB port)	GP-10-056B	Semi-rigid carrying case with wheels and handle
GP-302	USB mouse	GP-10-075	Universal hard carrying case
GP-2095	Headset		

PM-500 BUILT-IN POWER METER SPECIFICATIONS (OPTIONAL) ^e

Calibrated wavelengths (nm)	850, 1300, 1310, 1490, 1550, 1625, 1650
Power range (dBm)	10 to –86
Uncertainty (%) ^e	±5 % ± 3 pW (up to 5 dBm)
Display resolution (dB)	0.01 = max to –76 dBm 0.1 = –76 dBm to –86 dBm 1 = –86 dBm to min
Automatic offset nulling range ^f	Max power to –63 dBm
Tone detection (Hz)	270/1000/2000

VISUAL FAULT LOCATOR (VFL) (OPTIONAL)

Laser, 650 nm ± 10 nm
CW
Typical P _{out} in 62.5/125 μm: 3 dBm (2 mW)

Notes

- All specifications valid at 23 °C (73 °F).
- Standard recharge time is 4 h. Recharge temperature: 0 °C to 45 °C (32 °F to 113 °F).
- Not including internal batteries. Battery storage temperatures: –20 °C to 60 °C (–4 °F to 140 °F) for shipping, and –20 °C to 45 °C (–4 °F to 113 °F) for long-term storage.
- Platform with three batteries, no modules included.
- At 23 °C ± 1 °C, at 1550 nm and with an FC connector. With modules in idle mode. Battery-operated.
- For ±0.05 dB, from 18 °C to 28 °C.

ORDERING INFORMATION

FTB-500-XX-XX-XX-XX-XX-XX

Display ■

- S1 = TFT active screen
- S2 = TFT outdoor-enhanced screen

Battery ■

- BTY = With batteries

Power meter ■

- 00 = Without power meter
- VPM3 = VFL, power meter with InGaAs detector

■ Platform software option

- FPS = Fiber probe software

■ Probe option

- 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-28 = DIN 47256, DIN 47256/APC
- FOA-32 = ST: ST/PC, ST/SPC, ST/UPC
- FOA-54 = SC: SC/PC, SC/SPC, SC/UPC, SC/APC
- FOA-78 = Radial EC
- FOA-96B = E-2000 E2000/APC
- FOA-98 = LC
- FOA-99 = MU

Example: FTB-500-S1-BTY-VPM3-FOA-22- FP4S-FPS

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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. 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/specs>

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