FTB-1/FTB-1 Pro Platform

EMPOWERING FRONTLINE TECHNICIANS

PART OF THE
EXFO|FTB Ecosystem

EXFO Connect
Compatible

The FTB-1 version 2, available in standard (FTB-1v2) or Pro (FTB-1 Pro) model, is a portable system for fast and powerful optical, Ethernet, TDM and multiservice applications.

KEY FEATURES

Connects anywhere: USB, mobile, Wi-Fi, VPN and Bluetooth

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

Like a PC: available with dual- or quad-core processor and Windows operating system

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

COMPLEMENTARY PRODUCT

Fiber Inspection Probe
FIP-400B

EXFO

ADAPTED FOR DEDICATED APPLICATIONS. DEDICATED TO HELPING YOU ADAPT.

Thanks to its small format, ultra-powerful processing and highly intuitive interface, the FTB-1v2 is optimized to allow field technicians to carry out dedicated Optical, Ethernet and multiservice test applications simply and efficiently.

APPLICATIONS AND MODULES

Access

Module
FTB-720C
Access OTDR

Access fiber network testing
Leveraging best-in-class specifications and three test wavelengths, the FTB-720C is the ideal construction OTDR for everyday field testing. It enables fiber-optic contractors and private network operators to fully test and qualify any type of singlemode access network as well as Fiber-to-the-Antenna (FTTA), Distributed Antenna Systems (DAS) or singlemode data center networks.

10G

Modules*
FTB-880v2 NetBlazer 10G Tester
FTB-870v2 NetBlazer 10G Tester

10G testing*
The FTB-880 and FTB-870 NetBlazer V2 allows field technicians to easily turn up, validate and troubleshoot OTN, SONET/SDH, DSn/PDH, ISDN/PRI, CPRI, Fibre Channel and Ethernet services up to 10 Gbit/s in converged optical networks.

* Applicable to the FTB-1 Pro version only

TEST MODULES		FTB-1v2	FTB-1 PRO
OTDR	FTB-720C	√	√
10G dual port	FTB-880v2		√
	FTB-870v2		
10G quad port	FTB-880Q		√
	FTB-870Q		

OPTICAL PLUG-AND-PLAY OPTIONS

The platform can host optical plug-and-play options that can be purchased whenever you need them, at the time of your order or later on. In either case, installation is a snap. You can do it by yourself, without any software update required.

Optical Power Meter

A high-level power meter (GeX) that can measure up to 27 dBm, the highest in the industry. This is essential for HFC networks or high-power signals. If used with an auto-lambda/auto-switching compatible light source, the power meter automatically syncs on the same wavelength, avoiding any risk of mismatched measurement.

› Extensive range of connectors

› Auto-Lambda and Auto-Switching

› Offers measurement storage and reporting

› Choice of seven standard or CWDM calibrated wavelengths

Visual Fault Locator (VFL)

The plug-and-play VFL easily identifies breaks, bends, faulty connectors and splices, in addition to other causes of signal loss. This basic, yet essential troubleshooting tool, should be part of every field technician's toolbox. Visually locating faults by creating a bright-red glow at the exact location of the fault on singlemode or multimode fibers, it can detect faults over distances of up to 5 km (available with the Optical Power Meter only).

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THE WINDOWS 8.1 PRO ADVANTAGE ON THE FTB-1 PRO

Stay productive and connected while on the move with Windows compatible applications and services.

Applications

Use them the way you always have. Word, Excel, PowerPoint, and other programs you count on can be installed so you can work the way you're used to.

Best User Experience

› Faster start time

› Multitasking

Familiar Desktop

› File Explorer

› Boot to Desktop

› Start Button

Apps for Everyone

› Skype

› OneDrive

› Windows Store

Connect to a wide range of devices: printers, cameras, keyboards, mice, etc.

FIBER CONNECTOR INSPECTION AND CERTIFICATION—THE ESSENTIAL FIRST STEP

Taking the time to properly inspect a fiber-optic cable can prevent a slew of problems down the line–saving you time, money and headaches.

FIP-430B | The First Fully Automated Fiber Inspection Probe for the Field
Housing a unique automatic focus adjustment system, the FIP-430B automates each operation in the connector endface inspection sequence, transforming this critical process into one quick and easy step, which can be performed by technicians of all skill levels.

100% Automated [a]   **1-step** process [a]   **57%** shorter test time [b]

3 Models to fit your budget:

FEATURES	Basic FIP-410B	Semi-Automated FIP-420B	Fully-Automated FIP-430B
Three magnification levels	√	√	√
Image capture	√	√	√
Five-megapixel CMOS capturing device	√	√	√
Automatic fiber image-centering function	X	√	√
Automatic focus function	X	X	√
On-board pass/fail analysis	X	√	√
Pass/fail LED indicator	X	√	√

ConnectorMax 2

Read the FIP-400B specification sheet or visit www.EXFO.com/keepthefocus for more information.

Notes

a. Model FIP-430B only

b. Data sourced from EXFO's case study, with calculation based on typical analysis time.

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SOFTWARE TEST TOOLS

This series of platform-based software testing tools enhance the value of the FTB-1v2 Platform, providing additional testing capabilities without the need for additional modules or units.

EXpert TEST TOOLS

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

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.

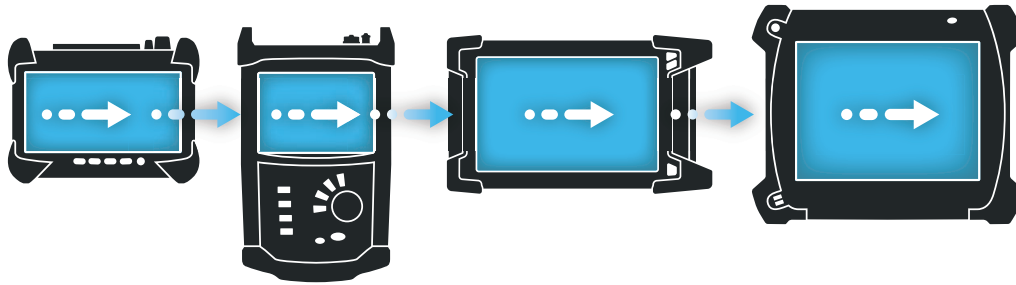### SOFTWARE APPLICATIONS

ConnectorMax2

Providing lightning-fast results in the first step of fiber-link testing, ConnectorMax2 is a powerful 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.

FastReporter 2 — EFFICIENT POST-PROCESSING SOFTWARE

Consolidated data management and post-processing tool designed to increase reporting productivity for connector endface inspection and all types of optical-layer testing: optical link mapper (iOLM), OTDR, ORL, loss, PMD and chromatic dispersion (CD).

EXFO

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, or to interface with a smart device, you have what it takes.

Bluetooth®   WiFi   3G   GPS

Secure VPN communications

With the ability to install and configure any VPN client solutions defined by your IT department. Secure communications are now within your reach.

3G/4G/LTE mobility

Get connected wherever you are, choose any Windows supported 3G/4G/LTE USB dongle and connect to your wireless service provider.

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

Because our platforms are Windows-based, they are just like a PC. You can install chat tools to quickly communicate with your team (Skype comes pre-installed on the FTB-1 Pro).
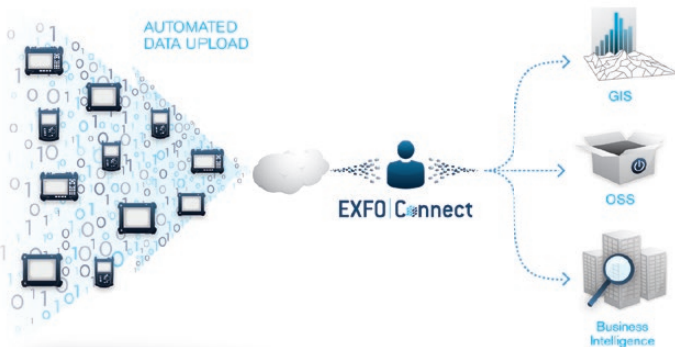
EXFO

EXFO|Connect

EXFO CONNECT MAKES YOUR DATA MEAN BUSINESS

EXFO Connect completely redefines integrated testing with its cloud-hosted solution. Equipped with powerful database and application technologies, EXFO Connect provides an automated, secure environment that links together your EXFO test instruments, and centralizes captured data across your organization. With its powerful correlation engine, EXFO Connect enables you to convert captured data into actionable information through customized test-data reporting and features that streamline test operations from build-out to maintenance.

Test Equipment Manager

EXFO Connect's Test Equipment Manager is an automated application that centralizes the management of all EXFO test instruments. It's a repository for software loads, licenses and platform profiles to help managers handle constant demands for software updates. It keeps track of equipment and ensures field technicians are equipped with up-to-date capabilities.

Test Data Manager

EXFO Connect's Test Data Manager is an automated application that provides a secure and centralized environment in which test data is collected, archived and referenced for future use. With test results at their fingertips, managers can create birth certificates, generate reports and set benchmarks.
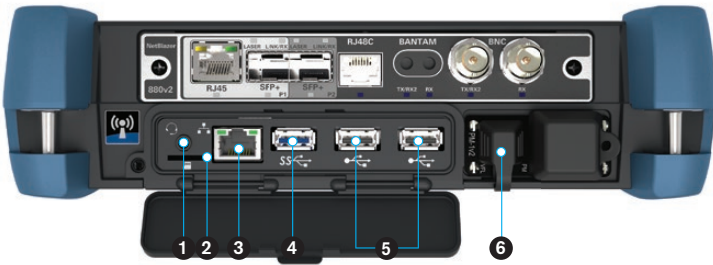

FTB Anywhere: Floating test licenses

FTB Anywhere™, a shared test license capability for the award-winning FTB Ecosystem. This unique approach in delivering advanced test applications enables network operators to purchase a certain number of cloud-hosted licenses that can be shared instantly with their technicians, wherever they are.

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DESIGNED FOR EFFICIENCY

1. Mic/Headset jack
2. Micro SD card slot
3. 1 GigE port
4. One USB 3.0 port
5. Two USB 2.0 ports
6. Power meter and VFL

7. AC adapter
8. Kensington security lock slot
9. Speaker
10. Brightness control
11. Keyboard/Screen capture
12. Switch application

13. Power on/off
14. Battery LED
15. Module back
16. Stand support

SPECIFICATIONS [a]	FTB-1v2	FTB-1 PRO
Mainframe	Dual Core processor / 4 GB RAM / Windows Embedded 8 Standard	Quad Core processor / 4 GB RAM / Windows 8.1 Professional OS
Display	Multitouch widescreen, color, 1280 x 800 TFT 203 mm (8 in)	Multitouch widescreen, color, 1280 x 800 TFT 203 mm (8 in)
Interfaces	RJ-45 LAN 10/100/1000 Mbit/s Two USB 2.0 ports One USB 3.0 port Micro SD card slot 3.5 mm headset/microphone port	RJ-45 LAN 10/100/1000 Mbit/s Two USB 2.0 ports One USB 3.0 port Micro SD card slot 3.5 mm headset/microphone port
Storage	64 GB internal memory (flash)	128 GB internal memory (flash)
Battery	Rechargeable Li-ion smart battery	Rechargeable Li-ion smart battery
Power supply	AC/DC adapter, input: $\sim$ 100 – 240 V; 50/60 Hz; 2.5 A max, output: --- 24 V; 3.75 A	AC/DC adapter, input: $\sim$ 100 – 240 V; 50/60 Hz; 2.5 A max, output: --- 24 V; 3.75 A

GENERAL SPECIFICATIONS

Size (H x W x D)	With single depth module	210 mm x 254 mm x 66 mm (8 ¼ in x 10 in x 2 ⁵/₈ in)
	With double depth module	210 mm x 254 mm x 96 mm (8 ¼ in x 10 in x 3 ¹³/₁₆ in)
Weight (with battery) [c]		1.5 kg (3.3 lb)
Temperature	Operation	0 °C to 50 °C (32 °F to 122 °F)
	Storage [b]	−40 °C to 70 °C (−40 °F to 158 °F) [b]
Relative humidity		0 % to 95 % non-condensing

BUILT-IN POWER METER SPECIFICATIONS (GEX) (OPTIONAL) [d]

Calibrated wavelengths (nm)	850, 1300, 1310, 1490, 1550, 1625, 1650
Optional CWDM calibrated wavelengths (nm)	1270, 1290, 1310, 1330, 1350, 1370, 1390, 1410, 1430, 1450, 1470, 1490, 1510, 1530, 1550, 1570, 1590, 1610, 1383, 1625
Power range (dBm)	Typical 27 to −50
Uncertainty (%) [e, f]	±5 % ± 10 nW
Display resolution (dB)	0.01 = max to −40 dBm 0.1 = −40 dBm to −50 dBm

VISUAL FAULT LOCATOR (VFL) (OPTIONAL)

Laser, 650 nm ± 10 nm
CW/Modulate 1 Hz
Typical P_{out} in 62.5/125 µm: −1.5 dBm (0.7 mW)
Laser safety: Class 2

LASER SAFETY

IEC 60825-1:2007   21 CFR 1040.10
LASER RADIATION
DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT
λ : 650 ±10 nm
P_{out} maximum < 2mW

The test modules that you use with your unit may have different laser classes. Refer to the module's documentation for exact information.

Notes

a. All specifications valid at 23 °C (73 °F).

b. −20 °C to 60 °C (−4 °F to 140 °F) with the battery, and −20 °C to 45 °C (−4 °F to 113 °F) for long-term storage.

c. Platform with batteries and without module.

d. At 23 °C ± 1 °C, 1550 nm and FC connector. With modules in idle mode. Battery operated after warm-up.

e. Typical.

f. At calibration conditions.

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ORDERING INFORMATION

FTB-1v2-XX-XX-XX-XX-XX-XX-XX-XX

Model
FTB-1v2 = Platform

Display
S1 = Standard display
S2 = Enhanced display for outdoor use

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

Memory
64G = 64 GB internal memory (flash)

Power meter/VFL
00 = Without power meter(PM)/VFL
VPM2X = VFL platform, PM; GeX detector
VPM2X-CWDM = VFL platform; PM; GeX detector;
CWDM wavelengths calibrated

Connector adapter [a]
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 = Radiall EC
FOA-96B = E-2000 E-2000/APC
FOA-98 = LC
FOA-99 = MU

Software option
00 = Without any software option
IPT = Ping and traceroute functionalities
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-Bundle = 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 [b]
EXpert-SCCP = SCCP call signaling support [b]
EXpert-H.323 = H.323 call signaling support [b]
EXpert-H.248 = H.248/Megaco call signaling support [b]
FR2-PL = FastReporter 2 Software
Fiber Characterization package
FR2-PL-LB = FastReporter 2 Software
Fiber Characterization package and iOLM Loopback mode

Inspection probe base tips [c]
APC = Includes FIPT-400-U25MA and FIPT-400-SC-APC
UPC = Includes FIPT-400-U25M and FIPT-400-FC-SC

Inspection probe models
FP410B = Digital video inspection probe [d]
Triple magnification

FP420B = Analysis digital video inspection probe [d]
Automated pass/fail analysis
Triple magnification
Autocentering

FP430B = Automated analysis digital video inspection probe [d]
Automated focus
Automated pass/fail analysis
Triple magnification
Autocentering

Example: FTB-1v2-S1-RF-64G-VPM2X-CWDM-FOA-22-FP420B-APC-FR2-PL-LB

Notes
a. Available if power meter is selected.
b. Available if EXpert VoIP selected.
c. Available if inspection probe is selected.
d. Includes ConnectorMax2 software.

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ORDERING INFORMATION

FTB-1v2-PRO-XX-XX-XX-XX-XX-XX-XX-XX

Model
FTB-1v2-PRO = Platform

Display
S1 = Standard display
S2 = Enhanced display for outdoor use

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

Memory
128G = 128 GB internal memory (flash)

Power meter/VFL
00 = Without power meter(PM)/VFL
VPM2X = VFL platform, PM; GeX detector
VPM2X-CWDM = VFL platform; PM; GeX detector;
CWDM wavelengths calibrated

Connector adapter [a]
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FOA-54 = SC: SC/PC, SC/SPC, SC/UPC, SC/APC)
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FP410B = Digital video inspection probe [d]
Triple magnification

FP420B = Analysis digital video inspection probe [d]
Automated pass/fail analysis
Triple magnification
Autocentering

FP430B = Automated analysis digital video inspection probe [d]
Automated focus
Automated pass/fail analysis
Triple magnification
Autocentering

Example: FTB-1v2-PRO-S1-RF-128G-VPM2X-FOA-98-FP430B-APC-EXpert-IPTV

Notes
a. Available if power meter is selected.
b. Available if EXpert VoIP selected.
c. Available if inspection probe is selected.
d. Includes ConnectorMax2 software.

Az Ön méréstechnikai szakértője:

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