# Provided by www.AAATesters.com UNIVERSAL TEST SYSTEM





# The ultimate platform for network experts

- Simultaneous acquisitions and fast data post-processing
- Scalable range of test applications and field-interchangeable modules
- Pentium-powered Windows operating system
- Easy-to-read, high-resolution 30.7 cm transflective (TFT) screen

# Combining physical, optical, transport and datacom testing in a single box

- Physical and optical testing: complete fiber and signal characterization using OTDR, OLTS, PMD, CD and OSA test modules
- Transport and datacom testing: QoS assurance validation using SONET/SDH and Ethernet test modules



Next-Generation Network Assessment





# The Ultimate Platform for Network Experts

Technologically speaking, today's networks are more complex than ever. Thousands of components have to work in harmony, and deployment specialists are responsible for tuning entire systems for optimal network performance and ensuring that records are up to date. At the same time, fiber counts are skyrocketing, and dense wavelength-division multiplexing (DWDM) is entrenched in long-haul applications, moving into metro.

New architectures. New deliverables. New documentation needs. A brand-new paradigm. Now, how do you rise to the challenge?

With the tough and proven FTB-400 Universal Test System from EXFO. This revolutionary test platform streamlines field-based test and measurement operations onto a single powerful platform. Welcome to multitasking in the field.



### Multiple Configurations, Dozens of Options

The FTB-400 Universal Test System comes in two configurations to expand your testing possibilities.

#### **Bus-Protector Configuration**

 Ultra-slim bus protector for using the FTB-400 as a dedicated portable computer

#### **Two-Slot Configuration**

- OTDR module (wide selection of models) combined with an automated optical loss test (OLTS) module, perfect for fiber characterization
- Over 500 OTDR and loss testing combinations

#### **Four-Slot Configuration**

This compact, high-power, multipurpose back receptacle houses up to four singleslot FTB test modules and offers a high-speed bus, ideal for various applications:

- Extensive datacom testing, using the complete Packet Blazer line of modules– Fibre Channel, Gigabit Ethernet and 10 Gigabit Ethernet
- Multiservice transport testing using Transport Blazer modules in conjunction with the Packet Blazer modules
- Dedicated OTDR, loss and Ethernet (up to 10 Gigabit) testing, combining an OTDR, the MultiTest module (OLTS) and a Packet Blazer module

# Test with Speed and Efficiency

# Choice on the Move

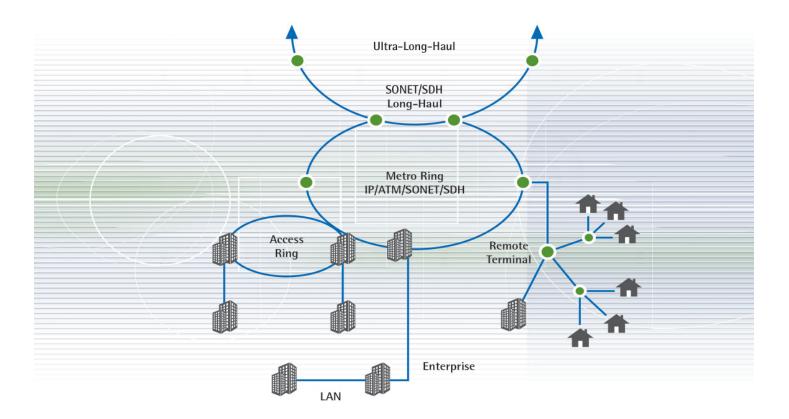
Choose from a wide variety of high-performance test modules. Modules are swapped easily, which means you get to customize your test set and configure your field equipment to meet evolving needs. Perform the right tests. Get the right data. And end up with integrated test reports for a global overview of your network's performance.

# **Module Choices**

- Over 25 OTDR models covering all network testing applications, from core to access
- Over 11 OLTS models for testing optical return loss (ORL) and insertion loss (IL)
- CD and PMD analyzer
- OSA
- SONET/SDH analyzers (up to 10 Gbit/s)
- Next-generation SONET/SDH analyzers
- DSn/PDH analyzers
- Ethernet analyzers (up to 10 Gbit/s)
- Fibre Channel analyzers
- Switch module: faster automated acquisitions by switching between one common port and multiple input/output ports
- Modular pulse-suppressor boxes (single mode and multimode)



The FTB-400 with print function and external printer.



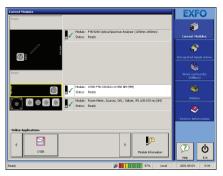
# The All-in-One Solution

If you're looking for high efficiency, the FTB-400 Universal Test System is the answer. Benefit from advanced test operations in outsideplant installation, maintenance and troubleshooting.

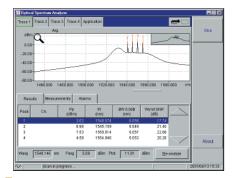
### **Multitasking**

Evolve with the latest technologies. From power readings and OTDR testing to optical switching, CD and PMD analysis, DWDM testing, protocol, datacom and data post-processing-the FTB-400 Universal Test System does it all. More importantly, the FTB line of swappable test modules continues to expand with new test applications and accelerated test routines.

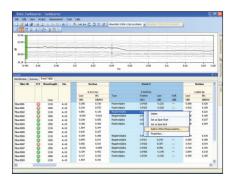
The powerful FTB-400 can perform simultaneous acquisitions and data post-processing.



The main interface of ToolBox, the FTB-400's standard software.



Data acquisition through OSA application.



Post-processing OTDR files with optional FastReporter software.

# Rugged

The FTB-400 Universal Test System complies with GR-196-CORE drop-test standards (76 cm drops on all six sides and eight corners). Plus, the tough shell and rubber bumpers mean that the FTB-400 and its precision modules survive splashes, knocks and temperature extremes.

# **User-Friendly**

- = 30.7 cm transflective (TFT) color touchscreen
- Easy to view, even in direct sunlight
- Largest LCD screen on the market
- = 800 x 600 pixel resolution



The FTB-400's rugged components include a tough, efficient touchscreen interface.

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Powerful

Power management is a snap, thanks to the ToolBox software. EXFO's FTB-400 is based on the Windows<sup>®</sup> 2000 operating system, run by a Pentium-series processor with 512 MB of SDRAM.

- Fast, intuitive Sleep mode for power conservation
- Far-ranging operating time
- Automated power management

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Quick, easy and effective data transfer.

Real-time battery information window.

### Rapid

Get moving faster, get results faster. New-generation processing power means acquisitions and data analysis are quicker than ever. And enjoy the advantage of EXFO's exclusive online data post-processing.

- Quick, easy data transfer
- Extremely fast acquisitions
- Efficient data post-processing
- Two USB ports
- Infrared (IrDA) port
- PCMCIA type III
- Writable CD-ROM

# Scalable

Choose between basic and advanced testing. The two-slot configuration enables compact, dedicated loss, ORL, OTDR and Gigabit Ethernet testing. The fully equipped fourslot configuration provides space for optical switching in high-fiber-count applications, dispersion analysis, DWDM testing, as well as transport and datacom testing. Configurations are interchangeable.



Two-slot FTB-400.

Four-slot FTB-400.



### Modular

Choose your range of test applications. The FTB-400 Universal Test System combines a series of high-performance test modules in a powerful platform. The test set simultaneously runs up to four single-slot field-interchangeable modules.

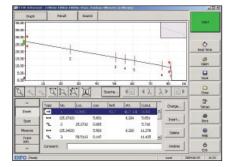
Plug in your choice of test modules.

# Housing a Complete Range\* of Test Solutions

### FTB-5700 Single-Ended Dispersion Analyzer

EXFO's Single-Ended Dispersion Analyzer combines chromatic dispersion and polarization mode dispersion measurement into a single, highly automated, high-efficiency test solution. It offers the true advantage of one-one-ended testing using one module, one connector and a one-step test setup and delivering one combined results file. The FTB-5700 delivers straightforward, yet advanced CD and PMD characterization in a single affordable instrument optimized for both entry-level and seasoned technicians.





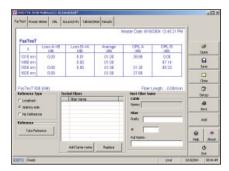
#### FTB-7000 OTDR Series

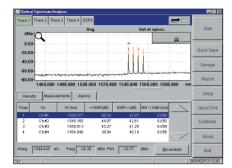
EXFO's OTDR modules offer numerous single

mode and multimode configurations available at several wavelengths. The FTB-7000 family includes five lines of OTDRs: the FTB-7200D LAN/WAN Access OTDR, the FTB-7300E FTTx PON/MDU OTDR, the FTB-7400E Metro/CWDM OTDR, the FTB-7500E Metro/ Long-Haul OTDR and the FTB-7600 Ultra-Long-Haul OTDR. These modules offer first-class resolution-event dead zone down to 0.8 m, and attenuation dead zone down to 3 m. Plus, combine them with EXFO's FTB-9100 Optical Switch to multiply your measurement power.

#### FTB-3930 MultiTest Module

MultiTest modules are customizable loss testers-perfect for estimating loss budgets. Integrate your choice of power meter and light source, exclusive FasTesT automated loss test set, ORL tester, visual fault locator (VFL), and digital talk set. New features include: FTTx-mode display (1490/1550 nm downstream, 1310 nm upstream), remote referencing and saving, as well as new measurement distance units (feet and kilofeet).





#### FTB-5240S Optical Spectrum Analyzer

EXFO's FTB-5240S Optical Spectrum Analyzer (OSA) module covers your DWDM applications and all channel spacings, from 50 GHz DWDM to CWDM; this is what we call "no-compromise performance", whatever your network specificities and testing requirements. This module is purpose-built for fast and accurate DWDM network commissioning and high-speed networking-up to 40 Gbit/s. EXFO's FTB-5240S OSA has fixed bandwidth; the acquired data is always top resolution, but the software enables to integrate data with variable resolution-providing extra flexibility without compromising on specifications and data quality.

#### FTB-8105 Transport Blazer DSn/PDH and SONET/SDH Electrical Test Module

The FTB-8105 is ideally suited for TDM field service deployment and maintenance activities. This test module offers capabilities to test traditional TDM DSn and PDH electrical rates, as well as the SONET and SDH electrical rates of up to 155 Mbit/s.

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\* Note: The FTB-400 is compatible with currently available FTB test modules. Please call to verify compatibility with legacy products no longer being manufactured.

#### FTB-8120NGE/8130NGE Power Blazer Next-Gen Multiservice Test Modules

These modules offer a full suite of SONET/SDH, next-gen SONET/SDH and Ethernet testing capabilities inside the industry's most compact form factor, meeting all multiservice transport network testing needs. The FTB-8130NGE, supporting testing rates up to 10 Gbit/s for both SONET/SDH and Ethernet (including 10 Gigabit Ethernet LAN/WAN), is ideally suited for MSTP and ROADM network deployments as well as maintenance activities. The FTB-8120NGE, handling SONET/SDH testing rates up to 2.5 Gbit/s and Ethernet testing rates up to GigE, is purpose-built for the growing deployments of Ethernet-over-TDM and Ethernet-over-SONET/SDH services worldwide.

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#### FTB-8510B/8510G Packet Blazer Ethernet/10 Gigabit Ethernet Test Modules

These modules offer performance validation for carrier-grade Ethernet-based services. Their wide range of test functionalities provides all the necessary measurement tools for service-level agreements (SLAs) validation. The FTB-8510B tests connectivity in its native format: 10/100/1000Base-T, 100Base-FX, 100Base-LX, 1000Base-SX, 1000Base-LX and 1000Base-ZX, and the FTB-8510G is used to test next-generation SONET/SDH, hybrid multiplexers, dark fiber or xWDM networks running 10 Gigabit Ethernet interfaces.

#### FTB-8115 Transport Blazer SONET/SDH Test Module

Available in 155 Mbit/s (OC-3/STM-1), 622 Mbit/s (OC-12/STM-4) and 2.5 Gbit/s (OC-48/STM-16) configurations, the FTB-8115 test module combines advanced DSn/PDH and SONET/SDH interfaces and functions in a single unit, ideal for access and metro SONET/SDH network commissioning and troubleshooting.



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#### FTB-8120/8130 Transport Blazer Next-Gen SONET/SDH Test Modules

The FTB-8120 (2.5 Gbit/s) and FTB-8130 (10/10.7 Gbit/s) test modules combine advanced DSn/PDH, SONET/SDH, next-generation SONET/SDH and optical transport network (OTN) test functions in a single unit, eliminating the need for multiple purpose-built test platforms when commissioning or troubleshooting multiservice SONET/SDH networks.

#### FTB-8520 Packet Blazer SAN Fibre Channel Test Module

The FTB-8520 brings FC-0, FC-1 and FC-2 logical layer Fibre Channel testing to services delivered via transport protocols, such as DWDM, SONET/SDH and dark fiber. It provides valuable timing information and buffer credit estimation for Fibre Channel network deployment. This module is designed for testing both telecom and Fibre Channel services, enabling end-to-end latency testing. What's more, the FTB-8520 helps ensure long-term integrity and error-free data delivery across Fibre Channel links.

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# Wide-Open Test Applications

Processing power, speed and flexibility-all great features. What's even better? Amazing benefits. While acquiring OTDR data on one set of fibers, you can perform DWDM testing with an OSA on other fibers in the cable. Then, print out concise reports on both tests. Today, this is simply the best way to streamline test and measurement operations. You'll work more effectively, speed up your test procedures in the field and save hours in the process.

You're responsible for installing non-zero dispersion-shifted fiber (NZDSF), qualifying DWDM SONET/SDH transmission equipment, maintaining fiber networks and qualifying each and every splice in long-haul data networks. What you need is the FTB-400. Insert any combination of OSA, CD and PMD analyzer, OTDR, power meter, ribbon fiber test kit or high-density optical switch in the two-slot or seven-slot FTB-400 UTS and perform all your tests simultaneously.

Apply the same concepts to new access networks as well as passive optical networks (PONs). Though transmission rates are considerably lower compared to long-haul systems (OC-3/12 vs. OC-192/768; STM 1/4 vs. STM 64/256), the density and architecture of the networks (point-to-multipoint instead of point-to-point) vary enormously. The FTB-400 offers solutions adapted to all possible applications.



# Multitasking

What does multitasking mean? It's the revolutionary ability to simultaneously combine several applications to meet specific test and measurement needs. Thanks to two module receptacle choices (2 or 4 slots) and multiple configurations, the FTB-400 brings multitasking to new heights. Below are a few examples.

#### Link characterization (four slots): First-class dispersion testing.

- FTB-3930 MultiTest Module
- FTB-5700 Single-Ended Dispersion Analyzer
- FTB-7000 OTDR Series

### Provisioning and turning up DWDM services (four slots): Simultaneous bit-error-rate (BER) testing on multiple interfaces.

- FTB-8105 Transport Blazer DSn/PDH and SONET/SDH Electrical Test Module
- FTB-8115/8120/8130 Transport Blazer SONET/SDH Test Modules
- FTB-8120NGE/8130NGE Power Blazer Next-Generation Multiservice Test Modules
- FTB-8510B Packet Blazer Ethernet Test Module
- FTB-8510G Packet Blazer 10 Gigabit Ethernet Test Module
- FTB-8520 Packet Blazer SAN Fibre Channel Test Module
- FTB-5240S Optical Spectrum Analyzer

### Installation and maintenance (two slots): OTDR and ORL testing on PON fiber links.

- FTB-7200D-236B OTDR
- FTB-3930 MultiTest Module

# Data Post-Processing: Field and Desktop Efficiency

#### **ToolBox: Standard Software for the Field and Desktop**

The FTB-400 Universal Test System comes with ToolBox software, which supports a wide range of EXFO field-testing modules: OTDR, MultiTest (OLTS), optical switch, OSA, PMD analyzer and chromatic dispersion (CD) analyzer, as well as SONET/SDH, Ethernet and Fibre Channel test modules. ToolBox also comes with Power Meter Result Viewer, Batch Processor Light and data transfer functionalities.

### Fast-Track Data Post-Processing with FastReporter Software

The optional FastReporter software package provides you with the post-processing tools and functionalities you need to achieve flexible, fully integrated data analysis, whatever the application. Designed for off-line analysis of field-acquired data, FastReporter offers a truly intuitive graphical user interface, which contributes to boosting productivity.

### Powerful Batch Processing

Automate repetitive operations on large numbers of OTDR test files, and optimize your productivity. Document an entire cable in a matter of seconds. Adjust your cable parameters and detection thresholds and perform batch analysis. Open OTDR files from various vendors' equipment and convert them to the universal Telcordia format.

### **Bidirectional Batch Analysis**

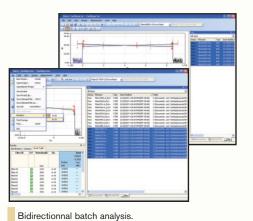
Analyze an entire cable in just two steps. View data for all events on all fibers, and at each wavelength, on a single screen.

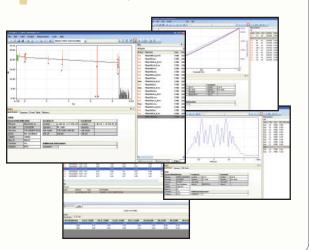
## Live Templating for OTDR Testing

Benefit from one-step file management at any wavelength. Keep full control by adding or removing events manually, or add/remove events automatically using a reference. Get uniform, detailed cable reports.

### Flexible Reporting

Choose from various report templates, including loss and ORL, OTDR, PMD, CD and fiber characterization. Generate comprehensive cable reports in PDF, Excel or HTML format.

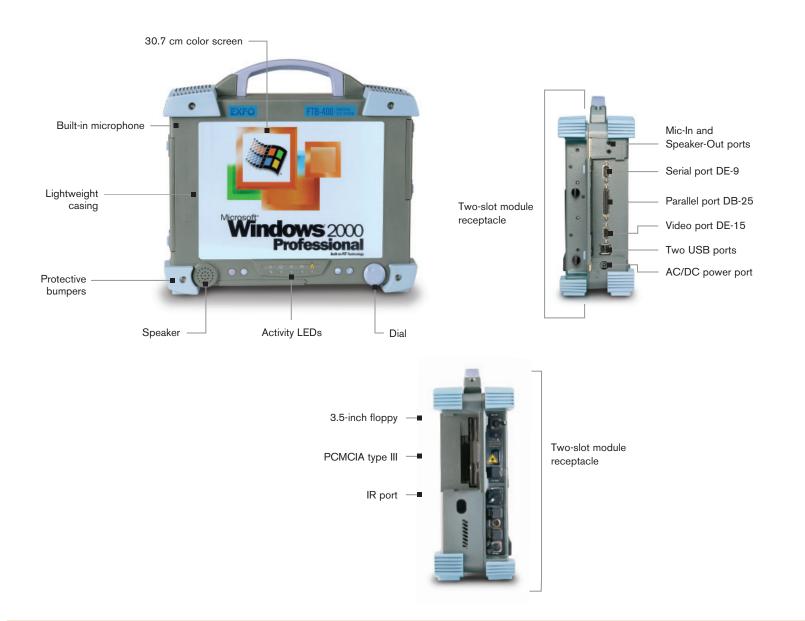




# Multimedia Advantages

- Pentium-series processor. Essential for speed and multitasking operations.
- PCMCIA type III device (two-slot) supports.
- Flash memory cards (256 MB) (optional).
- Ethernet/Fast Ethernet (10/100 Mbit/s) network card for remote control from a PC or another FTB-400 (optional).
- Fax modem (56.6 kbit/s) (optional).
- = 512 MB SDRAM. Quick access to internal memory.
- IrDA port and two USB 1.1 ports. Speed up data transfer.
- Internal 3.5-inch 1.44 MB floppy drive.

- Serial and parallel port. Printer and other peripherals.
- 30.7 cm color touchscreen resists spills and splashes. High-resolution, especially under bright light conditions.
- Dial. Quick-select software functions.
- External monitor port.
- Microphone port. Built-in or external.
- Sound card and speaker. Audible alarms.
- Lightweight casing. Splashproof protection of optical and electronic components.
- EXFO headset interface.



Display	Touchscreen, color, 800 x 600 TFT 307 mm (12 <sup>1</sup> /16 in)
Interfaces	Serial RS-232
	Parallel port
	External monitor
	Two USB 1.1 ports
	Infrared (IrDA) port
	Audio microphone In 3.5 mm
	Audio speaker Out 3.5 mm
	Two PCMCIA type II or one PCAMCIA type III
Storage	Internal 80 GB hard drive minimum (over 750 000 OTDR test files)
	Internal 3.5 in 1.44 MB floppy drive
	External USB read/write CD-ROM (optional)
	Flash memory cards (256 MB) (optional)
	NTFS file system
Batteries <sup>b</sup>	Rechargeable NiMH battery pack (two batteries for two-slot and four-slot receptacle
Power supply	100-240 VAC, 50/60 Hz and 12-24 VDC for the two-slot (GP-402) and 100-240 VAC, 50/60 Hz and 24 VDC for the four-slot (GP-404) module receptacle

### GENERAL SPECIFICATIONS

Temperature <sup>c</sup>		
operating	0 °C to 50 °C	(32 °F to 122 °F)
storage	–40 °C to 60 °C	(-40 °F to 140°F)
Relative humidity	0 % to 95 % (non-conden	sing)
Size (H x W x D)	Mainframe + two-slot mod	ule receptacle: 318 mm x 343 mm x 114 mm
	(12 <sup>1</sup> / <sub>2</sub> in x 13 <sup>1</sup> / <sub>2</sub> in x 4 <sup>1</sup> /	2 in)
	Mainframe + four-slot mod	ule receptacle: 318 mm x 343 mm x 139 mm
	(12 <sup>1</sup> / <sub>2</sub> in x 13 <sup>1</sup> / <sub>2</sub> in x 5 <sup>1</sup> /	2 in)
Weight <sup>d</sup>	Mainframe + two-slot mod	ule receptacle, including two NiMH batteries: 7.5 kg (16.6 lb)
	Mainframe + four-slot mod	ule receptacle, including two NiMH batteries: 8.3 kg (18.2 lb)
Vibration	< 1.5 g. at 10 Hz to 500 H	Hz (on three main axes)
Mechanical shock <sup>e</sup>	< 760 mm on six sides and	d eight main edges (according to GR-196-CORE)
Isolation	Spillproof and splashproof	
CE compliance	Class A certification	

#### Notes

a. All specifications valid at 23  $^{\circ}\mathrm{C}$  (73  $^{\circ}\mathrm{F}).$ 

b. Standard recharge time is 5 hrs. Recharge temperature: 0 °C to 35 °C (32 °F to 95 °F).

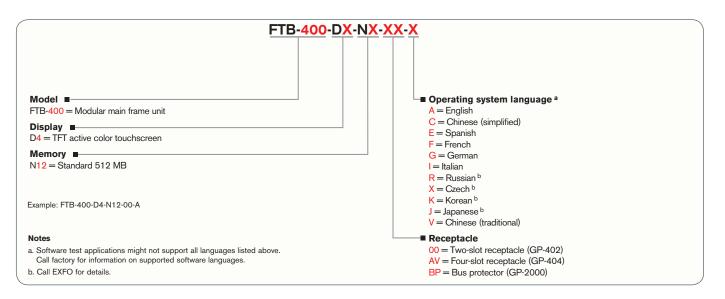
c. Not including internal batteries. Battery maximum storage temperature 40 °C (104 °F).

- d. Platform with batteries, no modules included.
- e. Two-slot receptacle.

#### ACCESSORIES

GP-273	Internal printer module	GP-320	256 MB ATA flash card for FTB-100B or FTB-400
GP-285	Spare NiMH smart battery for FTB-400		(8000 traces typ.)
GP-287	External battery charger for smart battery	GP-402	Additional two-slot receptacle
(A-E-I-S-U)	for FTB-100B and FTB-400	GP-404	Additional four-slot receptacle
	(requires AC external adapter/charger). Specify :	GP-1003	Battery compartment door for FTB-400
	A-North America, E-Europe, I-India, S-Australia and	GP-2000	PC bus protector
	New-Zealand, U-United-Kingdom	GP-2001	USB keyboard
GP-297 (A-E-I-S-U)	Canon BJC-85 (external printer-standard on the FTB-300	GP-2002	USB memory stick 256 MB
also)		GP-2003	USB memory stick 512 MB
GP-298	PCMCIA Fast Ethernet LAN (10/100 MB auto-detect)	GP-2005	Twin battery pack conditioning charger
GP-299	PCMCIA PSTN 56.6 kb/s	(A-E-I-S-U)	for FTB-100 and FTB-400
GP-302	USB mouse	GP-2026	Spare power adapter for GP-404 module receptacle
GP-303	PCMCIA GPIB interface	Carrying cases	
GP-304 (A-E-I-S-U)	Writable CD-ROM	- GP-10-047	Soft case for mainframe + two-slot
GP-305 (A-E-I-S-U)	Spare power adapter	- GP-10-047B	Semi-rigid case for two/four-slot FTB-400
GP-307	EXFO headset + adapter (allows connection		(without FTB-8000 series)
	of EXFO headset to microphone and speaker port)	GP-10-057	Universal hard case FTB-400
GP-308	Car lighter booster	- GP-10-068	Rigid case for two/four-slot FTB-400 (without FTB-8000
GP-309	DC adapter for lighter plug	- series)	
GP-310	Headset adapter	- 301103/	

#### **ORDERING INFORMATION**



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