

# DTX Compact OTDR

*Turn your cable tester into an OTDR*

*How much time would you save if you had one tool to test and certify the copper and fiber cable plant?*

*How many installation jobs would you win if you could add a full-featured OTDR onto your current list of test tools?*

*How much profit do you lose when you subcontract fiber work to dedicated fiber specialists?*

**See how the new DTX Compact OTDR is the answer.**



## A platform for growth

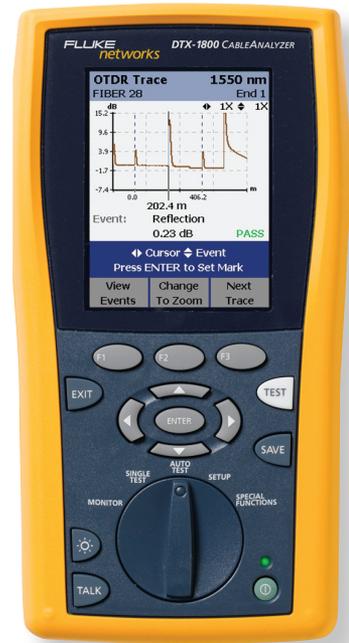
The DTX Compact OTDR is a revolutionary enhancement to the DTX CableAnalyzer.™ It turns your cable tester into an OTDR, so you can expand your business and your profitability by winning jobs you previously could not have performed. That's Fluke Networks' promise to you. That's Network SuperVision.™

## The biggest advance in cable testing since the DTX CableAnalyzer

The DTX Compact OTDR is a full featured Optical Time Domain Reflectometer (OTDR) module that snaps onto a DTX CableAnalyzer. In addition to copper testing, it makes this powerful certification tool a complete, easy-to-use OTDR that shoots and analyzes traces on singlemode and multimode fiber.

The DTX CableAnalyzer is the industry's benchmark for cable certification. With the DTX Compact OTDR, the DTX CableAnalyzer becomes the only cable tester that can completely certify copper and fiber cabling according to all industry standards.

The DTX Compact OTDR makes every technician a fiber expert with unparalleled ease of use, automatic OTDR settings, loss limits for events and fiber links, launch fiber compensation, automatic event analysis, and results management, all with the familiar user interface of the DTX CableAnalyzer.



## One platform, many advantages

The DTX Compact OTDR leverages a contractor's investment in the DTX CableAnalyzer by:

- Expanding installation revenue without expanding staff.
- Shortening technicians' learning curve for fiber testing.
- Performing Basic (Tier 1) and Extended (Tier 2) fiber certification with a single tool.
- Accelerating troubleshooting with a powerful, single-ended OTDR for fiber and extensive DTX diagnostics for copper.
- Delivering integrated copper and fiber reports using LinkWare™ Results Management Software.

**Make every technician a fiber expert**



## Fiber testing and certification

New applications are demanding higher bandwidth. The standards for higher bandwidth cabling require tight loss budgets, which in-turn demands thorough fiber testing. To ensure application success, it is important to test fiber on three criteria:

1. To the standards specified in the system design.
2. To the specifications defined in the installation contract.
3. To meet the needs of future applications and network services.

Thorough fiber testing is done with two tiers of certification: “Basic” or “Tier 1” fiber certification and “Extended” or “Tier 2” fiber certification. The details of certification are identified by the TIA and ISO standards bodies.

Basic fiber certification uses a Loss/Length test to measure end-to-end attenuation on a fiber link. Measured loss is compared to the maximum loss allowed according to the industry standards for that application.

Extended fiber certification requires an OTDR trace to characterize the individual components of a fiber link: connectors, splices and other loss events.

Extended fiber certification is critical because it identifies faults that may be invisible to Basic fiber certification. Good practice for fiber certification does not allow a hidden problem that may impact future performance to remain undocumented, if it can be identified and fixed before services are deployed.

Successful Basic fiber certification is evidence that the entire fiber link meets standards.

Successful Extended fiber certification is evidence that every component in the fiber link was properly installed.

Loss (M->R)		PASS
<b>Input Fiber</b>		
<b>1300 nm</b> 	Loss:	0.92 dB
	Limit:	2.30 dB
	Margin:	1.38 dB
<b>850 nm</b> 	Loss:	1.20 dB
	Limit:	3.36 dB
	Margin:	2.16 dB
Press SAVE when		
Other Dir.		
<b>Reflection</b>		<b>FAIL</b>
50.1 m		
	850 nm	1300 nm
Loss (dB)		
Status:	FAIL	PASS
Value:	0.79	0.48
Limit:	0.75	0.75
Margin:	-0.04	0.27
Reflectance (dB)		
Value:	-48.55	-30.29
◀ Event		
Overall Results	Previous Event	Next Event

*A poorly terminated connector on the same fiber is discovered by Extended fiber certification using the DTX Compact OTDR.*

*This fiber passes the Loss/Length test, or Basic fiber certification, because it has less end-to-end loss than allowed.*

## Complete fiber certification with the DTX CableAnalyzer

Using the DTX CableAnalyzer’s singlemode and multimode fiber modules, one press of a button automatically performs a Loss/Length test on two fibers at two wavelengths, and determines their pass or fail status.

The DTX Compact OTDR makes Extended fiber certification an easy process as well. A single test checks every connector and splice on a link to ensure the fiber cabling meets the defined specifications.

With fiber modules for Basic fiber certification and the DTX Compact OTDR for Extended fiber certification, the DTX CableAnalyzer platform fully certifies a fiber plant.

## OTDR solutions from Fluke Networks

Fluke Networks’ OTDR products are tailored to meet the needs of technicians who install and operate enterprise networks. They feature breakthrough technology developed over decades of leadership in the test equipment business.

The DTX Compact OTDR enables any technician to test fiber like an expert. It helps contractors successfully install fiber optic cabling, and win jobs that require fiber certification.

Fluke Networks complements the DTX Compact OTDR with the OptiFiber™ Professional OTDR. OptiFiber is an advanced multi-function fiber tester that helps enterprise network owners avoid and reduce downtime in their networks.

The OptiFiber Professional OTDR is designed for technicians that maintain fiber cabling in data center and campus fiber networks. OptiFiber combines multiple troubleshooting tools, a fiber endface inspector and the power of an optical loss test set to deliver the most advanced OTDR capabilities for network owners.





## Model Comparison

Model	DTX-1800-MSO	DTX-QUAD-OTDR	DTX-OTDR-KIT	DTX-OTDR/LL-KIT	DTX-OTDR-QMOD
<b>Description</b>	Complete DTX certification and troubleshooting kit	Full functioning DTX Compact OTDR	Compact OTDR kit for DTX owners	Complete fiber kit for DTX owners	Compact OTDR for DTX owners
<b>850/1300/1310/1550 DTX Compact OTDR</b>	•	•	•	•	•
<b>DTX 1800 Mainframe</b>	•	•			
<b>DTX Smart Remote</b>	•				
<b>Set of Copper Permanent Link Adapters &amp; Channel Adapters</b>	•				
<b>Fiber Accessories</b>	•			•	
<b>Singlemode, Multimode Launch Fibers (50 um, 62.5 um)</b>	•		•	•	
<b>FiberInspector Mini</b>	•				
<b>Fiber Optic Cleaning Kit</b>	•		•	•	
<b>Standard Protective Carrying Case for DTX CableAnalyzer</b>	•				
<b>Protective Carrying Case for DTX Compact OTDR and Accessories</b>	•	•	•	•	•
<b>Multimode Fiber Module Set (loss/length)</b>	•			•	
<b>Singlemode Fiber Module Set (loss/length)</b>	•			•	



*DTX Compact OTDR Kit*



*DTX Compact OTDR module*



*FiberInspector Mini*



*Fiber Modules*



## Ordering Information

Model Number	Description
<b>DTX-1800*</b>	<b>DTX-1800 CableAnalyzer</b> Includes DTX main and smart remote, Linkware PC software, 16 MB MMC card, set of Cat 6/ClassE Permanent Link and channel adapters, 2 headsets, 2 AC chargers, USB interface cable (mini B), serial RS232 cable (IEEE 1394 to DB9) users manual and carrying case.
<b>DTX-1800-MSO*</b>	<b>DTX 1800 Copper/Fiber/OTDR Kit</b> Includes DTX-1800 CableAnalyzer, sets of multimode DTX MFM2 and singlemode DTX SFM2 Fiber (loss/length) modules, DTX Compact OTDR, launch fibers, accessories and carrying case.
<b>DTX-QUAD-OTDR*</b>	<b>DTX 1800 QUAD OTDR Kit</b> Includes DTX-1800 CableAnalyzer mainframe and DTX Compact OTDR and carrying case.
<b>DTX-OTDR-KIT</b>	<b>DTX OTDR Compact add-on Kit</b> Includes DTX Compact OTDR, launch fibers, accessories and carrying case.
<b>DTX-OTDR/LL-KIT</b>	<b>DTX Compact OTDR and Loss Length Kit</b> Includes sets of multimode DTX MFM2 and singlemode DTX SFM2 Fiber (loss/length) modules, DTX Compact OTDR, launch fibers, accessories and carrying case.
<b>DTX-OTDR-QMOD</b>	<b>850/1300/1310/1550 DTX OTDR Module</b> Includes DTX Compact OTDR module and carrying case.
Support Options	Description
<b>GLD-DTX**</b>	<b>DTX Gold Support:</b> Includes no-charge repair, loaner kit, no-charge replacement of accessories, no-charge software or firmware upgrades, unlimited 24x7 multilingual technical support, unlimited access to knowledge base and online training, 20% discount on all in-person or on-site training programs, priority access to the used equipment list, and members only discounts on select products and enhancements.
<b>GLD-DTX-FIBERMOD</b>	<b>DTX Compact OTDR Gold Support:</b> Includes no-charge repair, loaner kit, no-charge replacement of accessories, no-charge software or firmware upgrades, unlimited 24x7 multilingual technical support, unlimited access to knowledge base and online training, 20% discount on all in-person or on-site training programs, priority access to the used equipment list, and members only discounts on select products and enhancements.

\*Regionalized versions available.

\*\*This includes up to one pair of interface adapters and one pair of personality modules per year.



DTX Compact OTDR™ Specifications  
Guide # 3039876

### NETWORK SUPERVISION

**Fluke Networks**  
P.O. Box 777, Everett, WA USA 98206-0777

Fluke Networks operates in more than 50 countries worldwide. To find your local office contact details, go to [www.flukenetworks.com/contact](http://www.flukenetworks.com/contact).

©2007 Fluke Corporation. All rights reserved.  
Printed in U.S.A. 7/2007 3035339 D-EN Rev B