### N E T W O R K S U P E R V I S I O N

# DTX CableAnalyzer<sup>™</sup> Accessories Guide

See how Fluke Networks' options and accessories can easily enhance your investment.

FLUKE networks.



# Smart Remotes

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### Speed through testing with two remotes.

Add another Smart Remote to your DTX Certification Kit to speed through testing. DTX main units work with two remotes allowing two technicians to leapfrog each other to cut testing time in half. Another DTX time-saver, test can be initiated from either the main unit or the Smart Remote unit.

Each Smart Remote package includes a Smart Remote, Cat 6/Class E Permanent Link Adapter, Cat 6/Class E Channel Adapter, Headset for Talk, AC Charger and Carrying Case.

#### **Smart Remotes**

DTX-1800/SR DTX-1800 Smart Remote DTX-1200/SR DTX-1200 Smart Remote DTX-LT/SR DTX-LT Smart Remote



# DTX 10 Gig Kit

### Test, Certify and Troubleshoot cabling for 10 Gig Ethernet over Copper

The DTX 10 Gig over Copper Test Solution enables testing and certification of twisted pair cabling for 10 Gigabit Ethernet deployments - whether it is an existing Cat 6/Class E or newly installed Augmented Cat 6/Class E cabling system. The DTX-10GKIT, together with DTX-1800 CableAnalyzer, is the first field test solution that measures performance for 10 Gig and Alien Crosstalk (ANEXT and AFEXT) in full compliance with the industry standards to 500 MHz.

- DTX-10GKIT DTX 10 Gig Kit consists of two Alien Crosstalk Communication Modules, two 10 Gig Permanent Link Adapters DTX-PLA002S, two high-performance Channel Adapters DTX-CHA001AS, two Termination Plugs, two 8-pin Modular Couplers and the DTX AxTalk Analyzer<sup>™</sup> Windows-based software to calculate Power Sum Alien Crosstalk results (PC not included). Includes a carrying case.
- DTX-AXTERM Alien Crosstalk Link Terminators (set of two)
- **CIQ-RJA** RJ45/11 Modular Adapter (Coupler) (set of two)
- DTX-10GCSE DTX-10GKIT Carrying Case



# Permanent Link Testing

### Deliver repeatable accuracy and Cat 6 interoperability

Fluke Networks' proprietary Permanent Link Adapter technology ensures superior accuracy and stability required for measuring Return Loss while increasing the accuracy of all other test parameter measurements – not just accuracy one time, but accuracy every time – over time.

### **DTX Permanent Link Adapters**

DTX-PLA001S	<b>Cat 6/Class E Permanent Link Adapters (set of two)</b> Includes DSP-PM06 Cat 6 centered personality modules (set of two) Adapters are also used for Cat 5e/Class D or Cat 3/Class C	DSP-PM06
DTX-PLA001	<b>Cat 6 Permanent Link Adapter</b> One replacement permanent link cable assembly; does not include a personality module	
DTX-PLA002S	<b>Cat 6A/Class E<sub>A</sub> Permanent Link Adapters (set of two)</b> Adapters are also used for Cat 6/Class E, Cat 5e/Class D and Cat 3/Class C	
DTX-PLA002	<b>Cat 6A/Class E<sub>A</sub> Permanent Link Adapter</b> Replacement permanent link adapter with Cat 6A plug	
DSP-PM06	Cat 6 Centered Personality Module A set of two is included with the DTX-PLA001S	
DSO-PMxx	<b>Personality Modules for IDC and legacy cabling systems.</b> A wide variety of modules are available for IDC-type connectors and legacy systems. For more information, go to <b>www.flukenetworks.com/legacypms</b>	
DTX-PLA002PRP	Cat 6A/Class E <sub>A</sub> PL Adapter – Plug Replacement Parts (set of two)	DTX-PLA001S

# Permanent Link and Channel Testing

### **DTX Channel Adapters**

DTX-CHA001S	Cat 6/Class E Channel Adapter (set of two)
DTX-CHA001	Cat 6/Class E Channel Adapter
	Use these adapters for Cat 5e/Class D, Cat 5, Cat 3 or Class C
DTX-CHA001AS	Cat 6/Class E Channel Adapter for Alien Crosstalk testing (set of two)
	These adapters perform all channel tests (Cat 3 through
	Cat 6) and can replace your existing DTX-CHA001S adapter set
DTX-CHA001A	Cat 6/Class E Channel Adapter (for Alien Crosstalk testing)
	These adapters may be used to replace the DTX-CHA001 adapters,
	but must be used for Alien Crosstalk certification for
	10Gb/s Ethernet deployments





### **DTX Class F Adapters**

- DTX-TERA
   TERA Adapter Kit, includes TERA Channel Adapters (set of two) and TERA Permanent Link Adapters (set of two)
- **DTX-CHA011** TERA Channel Adapter (replacement adapter)
- DTX-PLA011 TERA Permanent Link Adapter (replacement adapter)

# **Optional Test Adapters**

### Test patch cords to ensure optimal network performance

The DTX Patch Cord Test Adapters allow you to verify whether a patch cord meets TIA/ISO Cat 6/5e performance specifications with the DTX CableAnalyzer<sup>™</sup> Series. Test patch cords to ensure optimal network performance with greater channel throughput and greater system margin.

DTX-PCU6S DTX Series UTP Cat 6 Patch Cord Adapter Set includes: DTX Main adapter (DTX-PCU6/MN) and DTX Smart Remote adapter (DTX-PCU6/SR)

### Test coax cable links quickly and easily

Extend the capabilities of your DTX CableAnalyzer to test coaxial cabling systems including legacy data cabling (such as 10BASE-2 or 10BASE-5 Ethernet) and video distribution coaxial cabling. Test coax cable length, propagation delay, cable (input) impedance and insertion loss (cable attenuation) as a function of signal frequency (sweep from 1 through 900 MHz).

DTX-COAX DTX Coax Cable Test Adapter (two adapters included with BNC and FC connector inserts)



DTX-COAX

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# Verify Network Services

# Certify cabling, verify network availability and link connectivity and document in one consolidated report.

Improve the services you offer your customers with the DTX CableAnalyzer and the new Network Service Module (DTX-NSM). Simply plug the DTX-NSM module into the back of the main unit and you're ready to verify network service availability and link connectivity up to 1 Gb/s Ethernet. Verify if a link is active, identify its data rate, duplex capabilities and whether power is available for PoE. Then document all the network connectivity tests along with the cable certification test results in a single LinkWare report. This allows you to provide clear evidence to your customers that the job was done right – according to standards and best practices.

**DTX-NSM** DTX Network Service Module includes one module that plugs into the back of the main unit of the DTX



# LinkWare<sup>™</sup> Software and Carrying Case

### LinkWare PC Software

- LinkWare LinkWare Cable Test Management Software is a free download at www.flukenetworks.com/linkware
- LinkWare-Stats LinkWare Stats Statistical Report Option for advanced results analysis.

For a demo, visit www.flukenetworks.com/lwstats



### **DTX Accessories**

**DTX-CASE** Carrying Case – DTX Series **DTX-STRP** Carrying Strap – DTX Series

#### **DTX Headset**

DTX-TSET Headset for DSP and DTX CableAnalyzer



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## Fiber Modules

DTX-MFM2 Set of two DTX Multimode Fiber Modules Series 2. Each module is equipped with 850 nm and 1300 nm LED light sources combined into a single output port 850/1300/1310/1550 nm optical power meter Integrated VFL 62.5/125 SC-SC and 50/125 SC-SC Duplex Test Reference Cords (set of two) Mandrels (NF-MANDREL-50 and NF-MANDREL-625)

DTX

CableAnalyzer

Fiber Module

DTX-SFM2 Set of two DTX Singlemode Fiber Modules Series 2. Each module is equipped with 1310 nm and 1550 nm FP laser light sources combined into a single output port 850/1300/1310/1550 nm optical power meter Integrated VFL Duplex singlemode SC-SC Test Reference Cords (set of two)

DTX-GFM2 Set of two DTX Gigabit Multimode Fiber Modules Series 2 for certification of multimode optical fibers for use with Gigabit Ethernet deployments. Each module is equipped with 850 nm VCSEL light source and 1310 nm FP laser light source combined into a single output port 850/1300/1310/1550 nm optical power meter Integrated VFL 50/125 SC-SC Duplex Test Reference Cords (set of two)

**DTX-FBRCSE** Carrying case to hold two sets of DTX Series fiber test modules. The case also provides pockets to conveniently store several sets of test reference cords and room to store the fiber optic adapters for the Series 2 fiber test modules.

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Fiber

Carrying Case

Module Set

**DTX Fiber Modules** 

# Fiber Accessories

Duplex Fiber 1	Test Reference Cords for DTX Fiber Test Modules –Series 2
NFB1/2-LC/ST	Kit of Duplex MM 62.5um and 50um Test Cords with LC and ST Adapters
NFK1-DPLX-SC	Duplex MM 62.5 um Test Reference Cords for SC Adapter (set of two)
NFK1-DPLX-LC	Duplex MM 62.5 um Test Reference Cords for LC Adapter (set of two)
NFK1-DPLX-ST	Duplex MM 62.5 um Test Reference Cords for ST Adapter (set of two)
NFK1-DPLX-FC	Duplex MM 62.5 um Test Reference Cords for FC Adapter (set of two)
NFK2-DPLX-SC	Duplex MM 50 um Test Reference Cords for SC Adapter (set of two)
NFK2-DPLX-LC	Duplex MM 50 um Test Reference Cords for LC Adapter (set of two)
NFK2-DPLX-ST	Duplex MM 50 um Test Reference Cords for ST Adapter (set of two)
NFK2-DPLX-FC	Duplex MM 50 um Test Reference Cords for FC Adapter (set of two)
NFK3-DPLX-SC	Duplex Singlemode Test Reference Cords for SC Adapter (set of two)
NFK3-DPLX-LC	Duplex Singlemode Test Reference Cords for LC Adapter (set of two)
NFK3-DPLX-ST	Duplex Singlemode Test Reference Cords for ST Adapter (set of two)
NFK3-DPLX-FC	Duplex Singlemode Test Reference Cords for FC Adapter (set of two)

### Fiber Test Adapters for DTX Fiber Test Modules - Series 2

NFA-SC	SC Test Adapters (set of two)
NFA-LC	LC Test Adapters (set of two)
NFA-ST	ST Test Adapters (set of two)
NFA-FC	FC Test Adapters (set of two)

Fiber Test Adapters



# Fiber Accessories

### Add Dual-fiber SFF testing

The optional SFF Accessory Kits allow you to quickly and easily perform highly automated, dual-fiber testing, certification, and documentation of fiber links containing SFF connectors (MT-RJ, VF-45, and FiberJack).



# Fiber Mandrels and Fiber Cleaning Kit

### Improve fiber measurement, consistency and repeatability

Fluke Networks Multimode Fiber Mandrels offer a simple and cost-effective way to improve the repeatability, consistency and accuracy of multimode optical power and loss measurements when using a LED source.

#### **Fiber Mandrels**

NF-MANDREL-50	Red Multimode Fiber Mandrel for 50 $\mu m$ fiber with 3 mm jackets
NF-MANDREL-625	Gray Multimode Fiber Mandrel for 62.5 $\mu m$ fiber with 3 mm jackets
NFK1-MANDREL-KIT	Multimode Fiber Mandrel Kit containing two red 50 $\mu\text{m}$ mandrels and
	two gray 62.5 μm mandrels

# Ensure that all optical connections are clean and free of contaminants

NF430 Fiber Optic Cleaning Kit Includes alcohol-soaked cleaning pads, 2.5 mm

foam-tipped cleaning sticks, large foam-tipped cleaning swabs, lint-free cotton wipes, small bottle for isopropyl alcohol (shipped empty).

Fiber Optic Cleaning Kit



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# **DTX** Accessories

### **DTX Battery and Charger**

DTX-LION	Lithium Ion Battery
DTX-ACNA	AC Charger, North America, 120VAC, 60 Hz
DTX-ACUN	AC Charger, Universal, 120-240VAC, 49-60 Hz

### **DTX Memory Cards and Readers**

- DSP-MMC128 MultiMedia Card (MMC), 128 MB
- **DSP-MCR-U** MultiMedia Card (MMC) Reader, USB
- MMC-CASE MultiMedia Card (MMC) Carry Case
- **DTX-USB** USB Interface Cable (Mini-B)
- DTX-SER Serial RS-232 Cable (IEEE 1394 to DB-9)



## Enhancement Kits

The DTX Series future-proofs your investment giving you a clear and simple upgrade path from any of the models up to any higher performance model, including the DTX-1800.

#### DTX-1218E Enhancement Kit for DTX-1200 to DTX-1800

If you own a DTX-1200, upgrade to a DTX-1800 with the DTX-1218E Enhancement Kit. The kit includes extended frequency range to 900 MHz, Class F test capability with optional Class F Permanent Link and Channel Adapters, 128 MB MMC Card, MMC card holder and a serial computer interface cable (IEEE 1394 to DB9).

#### DTX-LT18E Enhancement Kit for DTX-LT to DTX-1800

If you own a DTX-LT, upgrade to a DTX-1800 with the DTX-LT18E Enhancement Kit. The kit includes extended frequency range to 900 MHz, Autotest speed upgrade to 9-seconds, talk headset, Cat 6/Class E Channel Adapter (1), MMC port, 128 MB MMC Card, MMC card holder and serial computer interface cable (IEEE 1394 to DB9).

#### DTX-LT12E Enhancement Kit for DTX-LT to DTX-1200

If you own a DTX-LT, upgrade to a DTX-1200 with the DTX-LT12E Enhancement Kit. The kit includes Autotest speed upgrade to 9-seconds, talk headset, Cat 6/Class E Channel Adapter (1), and MMC port.

### **Replacement** Parts Network SuperVision Gold Support

Model Name **GLD-DTX** 

**FIBERMOD** 

**Product Description** 

DTX Gold Support

- No charge repair
- Loaner kit during repair of your unit
- No charge scheduled annual calibration or performance verification
- No charge replacement of accessories (one set of PMs and one set of permanent link adapters LIAs per year if faulty or defective)
- No charge software or firmware upgrades
- Unlimited 24x7 multilingual technical support
- Unlimited access to Knowledge Base and on-line training (some restrictions apply)
- Priority access to the used equipment list
- Members only discounts on select products and enhancements
- GLD-DTX-DTX Fiber Module Gold Support
  - (Same benefits as above) See complete terms and conditions at www.flukenetworks.com/goldsupport

Product Description
DTX-1800 Main Replacement with
Lithium Ion Battery
DTX-1800 Smart Remote Replacement
with Lithium Ion Battery
DTX-1200 Main Replacement with
Lithium Ion Battery
DTX-1200 Smart Remote Replacement
with Lithium Ion Battery
DTX-LT Main Replacement with Lithium
Ion Battery
DTX-LT Smart Remote Replacement
with Lithium Ion Battery

### **OptiFiber® Certifying OTDR**

The complete test solution for troubleshooting and certifying fiber networks.

#### FiberInspector Pro<sup>™</sup> Video Microscope

This portable video microscope gives you superior vision to quickly and safely inspect all types of installed fiber.

#### IntelliTone<sup>™</sup> Pro Toner & Probe

IntelliTone Pro gives you SuperVision for locating cable hidden in floors, ceilings, walls, and in bundles. IntelliTone Pro finds the cables the others can't.

#### MicroScanner® Pro

The essential cable verification tester for verifying and troubleshooting cabling media.

Check our complete line of SuperVision products like these at www.flukenetworks.com



**Certifying OTDR** 





JackRapid™ Punchdown Tool



FiberInspector Pro™ Video Microscope



**Toner and Probe** 

MicroScanner® Pro



SimpliFiber™ Loss Test Kits

#### N E T W O R K S U P E R V I S I O N

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