



# PEATSA.

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## DTX-1800

FLUKE  
networks.

NETWORKSUPERVISION™



**DTX CableAnalyzer™**  
significantly reduces  
your total time  
to certify.

*The new DTX CableAnalyzer™ Series from Fluke Networks is the testing platform for today – and tomorrow. This revolutionary new platform significantly reduces total time to certify by improving every aspect of the testing process. It all starts with a Cat 6 Autotest time that's three times faster than other testers – and fiber testing that's five times faster. But that's just the beginning. DTX also gives you Level IV Accuracy, unmatched troubleshooting diagnostics, 900 MHz of testing bandwidth, 12-hour battery life, and nearly instant setup and reporting. With the DTX, you're ready for whatever the world throws at you – today and tomorrow.*

**DTX CableAnalyzer™**  
It's all about time.



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## The DTX CableAnalyzer: a visionary approach to testing.

**Level IV Accuracy** – Exceeds spec requirements for Cat 6 and beyond.

**Fiber ready at all times** – optional fiber modules fit snug and protected in DTX module cavity.

**Advanced time-saving diagnostics** pinpoint problems anywhere on the link and suggest corrective action to help you get the job done on time.

**Field tough Permanent Link Adapter** delivers repeatable accuracy and Cat 6 interoperability.

**12-hour battery life** – Lithium ion battery provides full day of testing.

**Internal memory** stores up to 250 graphical Cat 6 test results or up to 2000 reports in text format.

**Memory Card** for instant data hand-off – each multiple of 32 MB stores 600 Cat 6 graphical link test results.

**Talk feature** saves time by allowing you to communicate with your test partner at the other end of the link over both copper and fiber.

**Rugged overmold bonded to case** stands up to tough field conditions.

**Bandwidth support to 900 MHz** – supports video distribution, Class F, and 10 Gigabit Ethernet.

**9-second Cat 6 Autotest** – speeds you through testing three times faster than any other tester.

**Large color display** with bright backlight for easy viewing.

**12-second fiber Autotest** – performs dual fiber, dual-wavelength certification test.

**Save full graphical test results** to Fluke Networks' LinkWare PC software.

**USB Port** for high-speed test data downloads.

**Portable, lightweight ergonomic design** for easy field use.

**Rotary knob** makes learning easy and operation simple – you always know what test mode is selected.



Now you can test Gigabit Ethernet fiber links with the new DTX Gigabit Multimode Fiber Adapter.



New DTX Patch Cord Test Adapters – a fast, simple way to ensure patch cords meet the performance requirements of the installed link.



Extend the capabilities of your DTX CableAnalyzer to test coaxial cabling systems with the new DTX Coax Test Adapters.



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## DTX CableAnalyzer Series

Product Features	DTX-1800
Cat 6 Autotest time (seconds)	9
Maximum bandwidth (MHz)	900
Accuracy level	IV
Color display	•
Stores graphical results data	•
Internal memory capacity (graphical Cat 6)	250
Removable memory card interface	
Cat 6 graphical results for each of 32 MB multiple	600
Lithium ion batteries – battery life	12 hours
Advanced diagnostics	•
USB interface	•
Serial interface	•
Cat 6 permanent link adapter	•
Cat 6 channel adapter	•
Accepts resident fiber module	•
Start autotest at smart remote	•
Talk between main and smart remote	•
<b>Standard Accessories</b>	
Fiber Test Module (multimode, singlemode, or gigabit multimode)	option
Class F permanent link adapter	option
Class F channel adapter	option
Coax Cable Test Adapters	option
Patch Cord Test Adapters	option
Multimedia memory card	•
USB cable	•
Serial computer interface cable	•
Talk headset	•
Carrying case	•



## Experience the power of DTX.

We invite you to experience the unique capabilities of our DTX CableAnalyzer by taking a virtual test drive at [www.flukenetworks.com/DTXlive](http://www.flukenetworks.com/DTXlive).

Or in the U.S. and Canada, call us at 1-800-508-0490 and let a Fluke Networks Systems Engineer show you how DTX technology can work for you. Other countries, visit [www.flukenetworks.com/contact](http://www.flukenetworks.com/contact) for a sales organization near you. You can also sign up for a free half-day workshop covering the latest in testing and standards overview, DTX product demonstration, and hands-on operation. To find a workshop in your area, go to [www.flukenetworks.com/workshops](http://www.flukenetworks.com/workshops).

The DTX Series from Fluke Networks. The revolutionary platform that significantly reduces total time to certify – today and tomorrow.

**Note:**

- Feature or accessory is available in the standard product configuration.

n/a The feature is not available; the accessory is not applicable.  
option The accessory can be purchased as an optional item.

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

### Enhance your DTX tester with service, support, and training.

Register your DTX and receive a bonus gift. Plus access to our Technical Assistance Center (TAC) and extensive on-line Knowledge Base for fast answers. Register today at [www.flukenetworks.com/register](http://www.flukenetworks.com/register)

Customer Support is easy with our NetworkSuperVision™ Gold Support. It ensures peace-of-mind with free annual calibration, free loaner units, 24/7 TAC support and special discounts on training and promotions. See [www.flukenetworks.com/goldsupport](http://www.flukenetworks.com/goldsupport) for more information. Or contact your country sales organization for Gold program availability and pricing.

Train your installers at our one-day CCTT training and certification program. This BICSI-accredited course includes classroom training, hands-on labs, and exam certification exercises. Visit [www.flukenetworks.com/CCTT](http://www.flukenetworks.com/CCTT) for more information. Or contact the country sales organization nearest you for availability.

### NETWORKSUPERVISION

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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).

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## DTX CableAnalyzer™ Series Specifications

Cable Types	
Shielded and unshielded twisted pair LAN cabling: (STP, FTP, SSTP, and UTP) <small>Note: For availability of additional adapters that allow testing to other performance standards, different cabling types, or fiber optic cabling, contact Fluke Networks.</small>	TIA Category 3, 4, 5, 5e, and 6: 100 Ω ISO/IEC Class C and D: 100 Ω and 120 Ω ISO/IEC Class E, 100 Ω ISO/IEC Class F, 100 Ω
Standard Link Interface Adapters	
Cat 6/Class E permanent link adapters	Plug type: shielded Cat 6 centered 8-pin modular plug (RJ45) Plug life: > 5000 insertions Tests supported: shielded and unshielded cable, TIA Cat 3, 4, 5, 5e, and 6 and ISO/IEC Class C, D and E permanent link
Cat 6/Class E channel adapters	Plug type: shielded 8-pin modular socket (RJ45) Plug life: >10,000 insertions Tests supported: shielded and unshielded cable, TIA Cat 3, 4, 5, 5e, and 6 and ISO/IEC Class C, D and E channels
Test Standards	
TIA	Category 3 and Category 5e per TIA/EIA-568B Category 5 (1000BASE-T) per TIA TSB-95 Category 6 per TIA/EIA-568B.2-1 (Addendum #1 to TIA/EIA-568B.2)
ISO/IEC	11801 Class C, D and E 11801-2000 Class C, D and E 11801 Class F (DTX-1800 only)
EN	50173 Class C, D, E 50173 Class F (DTX-1800 only)
ANSI	TP-PMD
IEEE 802.3	10BASE-T, 100BASE-TX, 1000BASE-T
IEEE 802.5	(STP cabling, IBM Type 1, 150 Ω) Token Ring, 4 Mbps and 16 Mbps
General Specifications	
Speed of Autotest	Full 2-way Autotest of Category 6 Twisted-Pair links: <b>12 seconds or less</b> Full 2-way Autotest of ISO/IEC Class F links: <b>30 seconds</b>
Supported test parameters <small>The selected test standard determines the test parameters and the frequency range of the tests</small>	Wire Map, Length, Propagation Delay, Delay Skew, DC Loop Resistance, Insertion Loss (Attenuation), Return Loss (RL), RL @ Remote, NEXT, NEXT @ Remote, Attenuation-to-Crosstalk Ratio (ACR), ACR @ Remote, ELFEXT, ELFEXT @ Remote, Power Sum ELFEXT, PSELFEXT @ Remote, Power Sum NEXT, PSNEXT @ Remote, Power Sum ACR, PSACR @ Remote
Cable tone generator	Generates tones that can be detected by a tone probe such as a Fluke Networks IntelliTone™ probe. The tones are generated on all pairs. Frequency range of tones: 440 Hz to 831 Hz
Display	3.7 in (9.4 cm) diagonal, 240 dots wide by 320 dots high, passive color, transmissive LCD with backlight.
Input protection	Protected against continuous telco voltages and 100 mA over-current. Occasional ISDN over-voltages will not cause damage
Case	High impact plastic with shock absorbing overmold
Dimensions	Main unit and Smart Remote: 8.5 in x 4.4 in x 2.4 in (21.6 cm x 11.2 cm x 6 cm), nominal
Weight	2.4 lb (1.1 kg), nominal (without adapter or module)
Power	
Main unit and remote:	Lithium-ion battery pack, 7.4 V, 4000 mAh
Typical battery life:	12 to 14 hours
Charge time* (with tester off):	4 hours (below 40° C)
AC adapter/charger, USA version:	Linear power supply; Input 108 V ac to 132 V ac, 60 Hz ; Output 15 V dc, 1.2 A
AC adapter/charger, international version:	Switching power supply; Input 90 V ac to 264 V ac, 47 to 63 Hz; Output 15 V dc, 1.2 A (isolated output)
Memory backup power in main unit:	Lithium battery
Typical life of lithium battery:	5 years
Languages supported	English, French, German, Spanish, Portuguese, Italian, Japanese, and Simplified Chinese
Calibration	Service center calibration period is 1 year

\* The battery will not charge at temperatures outside of 0° C to 45° C (32° F to 113° F). The battery charges at a reduced rate between 40° C and 45° C (104° F and 113° F).



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Environmental Specifications		
Operating temperature	32° F to 104° F (0° C to 45° C)	
Storage temperature	-4° F to +140° F (-20° C to +60° C)	
Operating relative humidity (% RH without condensation)	32° F to 95° F (0° C to 35° C): 0 % to 90 % 95° F to 113° F (35° C to 45° C): 0 % to 70 %	
Vibration	Random, 2 g, 5 Hz -500 Hz	
Shock	1 m drop test with and without module and adapter attached	
Safety	CSA C22.2 No. 1010.1: 1992 EN 61010-1 1st Edition + Amendments 1, 2	
Pollution degree	Pollution Degree 2 as defined in IEC 60664 and applied to IEC 60950 'Safety of Information Technology Equipment, 1999'	
Altitude	Operating: 4000 m; Storage: 12000 m	
EMC	EN 61326-1	
Performance Specifications**		
Baseline accuracy	The baseline accuracy of all DTX Series testers meets or exceeds the requirements of Level IV as in draft 2nd Edition of IEC 61935-1 over the frequency range supported by the tester.	
Category 6/Class E link test modes (and lower link categories)	DTX CableAnalyzer far exceeds Level III requirements of TIA/EIA-568-B.2-2 and IEC 61935-1.	
Class F link test modes	DTX-1800 is compliant with Level IV requirements as in the draft 2nd edition of IEC 61935-1.	
Length for Twisted Pair Cabling <sup>†</sup>		
Parameter	Single-ended Test	Dual-ended Test (Main and Remote)
Range	800 m (2600 ft)	150 m (490 ft)
Resolution	0.1 m or 1 ft	0.1 m or 1 ft
Accuracy	± (.3 m + 2%); for lengths 0 to 150 m ± (.3 m + 4%); for lengths 151 to 800 m	± (.3 m + 2%)
Propagation Delay		
Parameter	Single-ended Test	Dual-ended Test (Main and Remote)
Range	4000 ns	750 ns
Resolution	1 ns	1 ns
Accuracy	± (2 ns + 2%); 0 to 750 ns ± (2 ns + 4%); 751 to 4000 ns	± (2 ns + 2%)
Delay Skew		
Parameter	Twisted Pair Cabling	
Range	0 ns to 100 ns	
Resolution	1 ns	
Accuracy	± 10 ns	
DC Loop Resistance Test		
Parameter	Twisted Pair Cabling	
Range	0 Ω to 53 Ω	
Resolution	0.1 Ω	
Accuracy	± (1 Ω + 1%)	
Overload recovery time	Less than 10 minutes to rated accuracy following over-voltage. Referencing is required after repeated or prolonged over-voltage.	

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\*\* Note: All specifications for tests on twisted-pair cabling apply to 100 Ω cable. Contact Fluke Networks for information on measurement performance for cable with a different impedance.

† Length specs do not include the uncertainty of the cable's NVP Value  
 Above specifications are subject to change without notice.