

DTX CableAnalyzer™ Ordering Information

| Model Name | Product Description |
|-----------------------|--|
| DTX-1800 ¹ | DTX-1800 CableAnalyzer – Includes DTX-1800 Main and Smart Remote, LinkWare PC Software, 16MB MMC Card, Cat 6/Class E Permanent Link Adapters (2), Cat 6/Class E Channel Adapters (2), Headsets for Talk (2), AC Chargers (2), Carrying Case, USB Interface Cable (Mini-B), Serial RS-232 Cable (DB9 to IEEE1394), User Manual |
| DTX-1200 ¹ | DTX-1200 CableAnalyzer – Includes DTX-1200 Main and Smart Remote, LinkWare PC Software, Cat 6/Class E Permanent Link Adapters (2), Cat 6/Class E Channel Adapters (2), Headsets for Talk (2), AC Chargers (2), Carrying Case, USB Interface Cable (Mini-B), User Manual |
| DTX-LT ¹ | DTX-LT CableAnalyzer – Includes DTX-LT Main and Smart Remote, LinkWare PC Software, 16MB MMC Card, Cat 6/Class E Permanent Link Adapters (2), Cat 6/Class E Channel Adapters (1), AC Chargers (2), Carrying Case, USB Interface Cable (Mini-B), Serial RS-232 Cable (DB9 to IEEE1394), User Manual |
| DTX-MFM | DTX Multimode Fiber Modules – Includes two modules one for Main and one for Smart Remote, 850nm and 1300nm LED sources combined into single output port, 850/1300/1310/1550 nm power meter, and integrated VFL |
| DTX-SFM | DTX Singlemode Fiber Modules – Includes a set of two modules for Main and Smart Remote, 1310nm and 1550 nm laser sources combined into single output port, 850/1300/1310/1550 nm power meter and integrated VFL |
| DTX-18M | DTX-1800 with Multimode Fiber Modules – Includes DTX-1800 CableAnalyzer and a set of DTX-MFM Multimode Fiber Modules |
| DTX-18MS | DTX-1800 with Multimode and Singlemode Fiber Modules – Includes DTX-1800 CableAnalyzer and set of DTX-MFM Multimode Fiber Modules and DTX-SFM Singlemode Fiber Modules |
| DTX-12M | DTX-1200 with Multimode Fiber Modules – Includes DTX-1200 CableAnalyzer with set of DTX-MFM Multimode Fiber Modules |
| DTX-12MS | DTX-1200 with Multimode and Singlemode Fiber Modules – Includes DTX-1200 CableAnalyzer and set of DTX-MFM Multimode Fiber Modules and DTX-SFM Singlemode Fiber Modules |
| DTX-1800/SR | DTX-1800 Smart Remote Add-on |
| DTX-1200/SR | DTX-1200 Smart Remote Add-on |
| DTX-LT/SR | DTX-LT Smart Remote Add-on |

Accessories and Options

| Model Name | Product Description |
|----------------|--|
| DTX-CHA001 | Cat 6/Class E Channel Adapter |
| DTX-CHA001S | Cat 6/Class E Channel Adapters, set of 2 |
| DTX-PLA001 | Universal Permanent Link Adapter (1) with PM06 Personality Module |
| DTX-PLA001S | Universal Permanent Link Adapters (2) with PM06 Personality Modules |
| DSP-PM06 | Cat 6 Centered Personality Module |
| DSP-PMxx | Personality Modules for IDC and Legacy Cabling Systems A wide variety of modules are available for IDC-type connectors and legacy systems |
| DTX-CHA011 | Siemons Tera Channel Adapter (available Q3 2004) |
| DTX-PLA011 | Siemons Tera Permanent Link Adapter (available Q3 2004) |
| DTX-TERA | Siemons Tera Adapter Kit (available Q3 2004) – Includes Tera Channel Adapters (2) and Tera Permanent Link Adapters (2) |
| DTX-CHA012 | Nexans GG45 Channel Adapter (available Q3 2004) |
| DTX-PLA012 | Nexans GG45 Permanent Link Adapter (available Q3 2004) |
| DTX-GG45 | Nexans GG45 Adapter Kit (available Q3) – Includes GG45 Channel Adapters (2) and GG45 Permanent Link Adapters (2) |
| DTX-LION | Lithium Ion Battery Pack |
| DTX-SER | Serial RS-232 Cable (DB-9 to IEEE1394) |
| DSP-MCR-U | MultiMedia Card (MMC) Reader, USB |
| LinkWare | LinkWare Cable Test Management Software – Free download at www.flukenetworks.com/linkware |
| LinkWare-Stats | LinkWare Stats Statistical Report Option – Results analysis software option for LinkWare |

Support Options

| Model Name | Product Description |
|---------------------|---|
| GLD-DTX | DTX Gold Support – Includes no charge repair, Loaner kit, no charge scheduled annual calibration or performance verification, no charge replacement of accessories ² , no charge software or firmware upgrades, unlimited 7x24 multilingual technical support, unlimited access to KnowledgeBase and on-line 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 |
| GLD-DTX-FIBERMODULE | DTX Fiber Module Gold Support – As above |

¹ Available in 120V and International (120-240V) versions. 120V version includes English users manual. International version includes multi-language pack users manual.

² This includes up to one pair of interface adapters and one pair of personality modules per year

DTX CableAnalyzer™ Series Specifications

| Cable Types | |
|---|---|
| Shielded and unshielded twisted pair LAN cabling: (STP, FTP, SSTP, and UTP) <i>Note: For availability of additional adapters that allow testing to other performance standards, different cabling types, or fiber optic cabling, contact Fluke Networks.</i> | 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 | 10BASE5, 10BASE2, 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: 12 seconds or less Full 2-way Autotest of ISO/IEC Class F links: 30 seconds |
| Supported test parameters <i>The selected test standard determines the test parameters and the frequency range of the tests</i> | 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).

| 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† | | |
| 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. | |

NETWORK SUPERVISION

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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.

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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.