

Datasheet: DSX CableAnalyzer™ Series

The **DSX CableAnalyzer™ Series** is the copper certification solution of the Versiv™ cabling certification product family. The DSX Series includes the DSX-8000, which can certify cabling up to Cat 8 / 2 GHz, and the DSX-5000 which can certify up to Cat 6A / Class F_A / 1GHz. The Versiv line also includes **fiber OLTS certification**, **OTDR**, and **fiber inspection** modules. Versiv reduces overall certification costs by up to 2/3, adding up to 10% to the bottom line of every job. While the fastest test time (8 seconds for Cat 6A) plays a part, the system is designed from the ground up to reduce errors and streamline certification. Full integration with the **LinkWare Live cloud service** lets the Project Manager remotely set up the testers, monitor job progress and even locate tester from any smart device.

With the DSX CableAnalyzer and Versiv, you'll save money every time you use it.



The DSX CableAnalyzer Series copper test solution enables testing and certification of twisted pair cabling for up to 40 Gigabit Ethernet deployments and will handle any cabling system whether it is a Cat 5e, 6, 6A, 8 or Class F_A and I/II. Certifying a cable is one part of a process that starts with system design and ends with system acceptance. The faster that process goes, the more profitable you'll be. Unfortunately, there are a lot of things that slow the process down – setting up the tester incorrectly, testing to the wrong limits, waiting for skilled technicians to analyze and troubleshoot failures, misinterpretation of results, and producing test reports that customers cannot understand.

As part of the **Versiv cabling certification** product family, the DSX CableAnalyzer Series provides accurate, error-free certification. In the installation business there are multiple teams, varying media types and multiple testing requirements. The difference between being profitable or not is just a few percentage points. The DSX certifies copper cabling, complies with all standards including Level VI/2G accuracy, making jobs easier to manage, and getting to system acceptance faster. It's not just for the expert technicians and Project Managers. Individuals of various skill levels can improve the set-up, operation, test reporting, and simultaneously manage diverse projects.



DSX CableAnalyzer Series Specifications

Cable Types	
Shielded and unshielded pair LAN cabling	TIA Cat 3, 4, 5, 5e, 6, 6A, 8: 100 Ω ISO/IEC Class C, D, E, EA, F, FA and I/II: 100 Ω and 120 Ω
Standard Link Interface Adapters	
Permanent link adapters	Plug type: shielded RJ45
	Optional Plug type: ARJ45/GG45
Channel Adapters	Jack type: shielded RJ45
	Optional Jack type: Tera, GG45/ARJ45
Test Standards	
TIA	Cat 3, 4, 5, 5e, 6, 6A, 8 per TIA 568 Series
ISO/IEC	Class C, D, E, EA, F, FA, I/II certification per ISO/IEC 11801 Series
Maximum frequency	DSX-8000: 2000 MHz; DSX-5000 1000 MHz
General Specifications	
Autotest Time	DSX-8000: Full 2-way Autotest of Cat 5e or 6/Class D or E: 7 seconds Full 2-way Autotest of Cat 6A/Class EA: 8 seconds Full 2-way Autotest of Cat 8: 16 seconds DSX-5000: Full 2-way Autotest of Cat 5e or 6/Class D or E: 9 seconds Full 2-way Autotest of Cat 6A/Class EA: 10 seconds
Support test parameters (The selected test standard determines the test parameters and the frequency range of the tests)	Wire Map, Length, Propagation Delay, Delay Skew, DC Loop Resistance, Pair-to-Pair Resistance Unbalance, Pair Resistance Unbalance, Insertion Loss (Attenuation), Return Loss (RL), Common Mode Return loss (CMRL), Near End Crosstalk (NEXT), Far End Crosstalk (FEXT), Attenuation-to-crosstalk Ratio (ACR-N), ACR-F (ELFEXT), Power Sum ACR-F (ELFEXT), Power Sum NEXT, Power Sum ACR-N, Power Sum Alien NEXT (PS ANEXT), Power Sum Alien Attenuation NEXT Ratio Far End (PS AACR-F), Common Mode to Differential Mode NEXT (CDNEXT), Transverse Conversion Loss (TCL), Equal Level Transverse Conversion Transfer Loss (ELTCTL)
Input protection	Protected against continuous telco voltages and 100 mA over-current. Occasional ISDN over-voltages will not cause damage
Display	5.7 in LCD display with a projected capacitance touchscreen
Case	High impact plastic with shock absorbing overmold
Dimensions	Main Versiv unit with DSX module and battery installed: 2.625 in x 5.25 in x 11.0 in (6.67 cm x 13.33 cm x 27.94 cm)
Weight	Main Versiv unit with DSX module and battery installed: 3 lbs, 5oz (1.28 kg)
Main unit and remote	Lithium ion battery pack, 7.2 V
Typical battery life	8 hours
Charge time*	Tester off: 4 hours to charge from 10 % capacity to 90 % capacity
Languages supported	English, French, German, Italian, Japanese, Portuguese, Spanish, Chinese, Korean, Russian, Trad Chinese, Czech, Polish, Swedish, Hungarian
Calibration	Service center calibration period is 1 year
Integrated Wi-Fi	Meets IEEE 802.11 a/b/g/n; dual band (2.4 GHz and 5 GHz)

Environmental Specifications

Operating Temperature	32° F to 113° F (0° C to 45° C)
Storage Temperature	-22° F to +140° F (-30° C to +60° C)
Operating relative humidity (% RH without condensation)	0% to 90%, 32° F to 95° F (0° C to 35° C)
	0% to 70%, 95° F to 113° F (35° C to 45 °C)
Vibration	Random, 2 g, 5 Hz-500 Hz
Shock	1 m drop test with and without module and adapter
Safety	CSA 22.2 No. 61010, IEC 61010-1 3rd Edition
Operating altitude	13,123 ft (4,000 m)
	10,500 ft (3,200 m) with ac adapter
EMC	EN 61326-1

Ordering Information	
DSX2-8000 Wireless models	
Model	Description
DSX2-8000	2GHZ DSX-8000 CableAnalyzer with Wi-Fi
DSX2-8000/GLD	2GHZ DSX-8000 CableAnalyzer with Wi-Fi and 1 YR Gold Support
DSX2-8000MI	2GHZ DSX-8000 CableAnalyzer with Multimode OLTS, Fiber Inspection and Wi-Fi
DSX2-8000MI/GLD	2GHZ DSX-8000 CableAnalyzer with Multimode OLTS, Fiber Inspection, Wi-Fi and 1 YR Gold Support
DSX2-8000QI	2GHZ DSX-8000 CableAnalyzer with Quad OLTS, Fiber Inspection and Wi-Fi
DSX2-8000QI/GLD	2GHZ DSX-8000 CableAnalyzer with Quad OLTS, Fiber Inspection, Wi-Fi and 1 YR Gold Support
DSX2-8000QOI	2GHZ DSX-8000 CableAnalyzer with Quad OLTS, Quad OTDR, Fiber Inspection and Wi-Fi
DSX2-8000QOI/GLD	2GHZ DSX-8000 CableAnalyzer with Quad OLTS, Quad OTDR, Fiber Inspection, Wi-Fi and 1 YR Gold Support
DSX2-8000-PRO	Versiv Professional Kit with DSX-8000 CableAnalyzer, Quad OLTS, Quad OTDR, Fiber Inspection, Wi-Fi and a full complement of product accessories.
DSX2-8000-PRO/GLD	Versiv Professional Kit with DSX-8000 CableAnalyzer, Quad OLTS, Quad OTDR, Fiber Inspection, Wi-Fi and a full complement of product accessories and 1 YR Gold Support.

DSX2-8000 Non-Wireless models	
Model	Description
DSX2-8000-NW	2GHZ DSX-8000 CableAnalyzer
DSX2-8QOI-NW	DSX2-8000QOI with Integrated Wi-Fi disabled
DSX2-8QOI/GLD-NW	DSX2-8000QOI with Integrated Wi-Fi disabled and 1 YR Gold Support
DSX2-8-PRO-NW	DSX2-8000-PRO with integrated Wi-Fi disabled
DSX2-8000PRONW/GLD	DSX2-8000-PRO with integrated Wi-Fi disabled and 1 YR Gold Support

DSX2-8000 Accessories	
Model	Description
DSX-8000-ADD	DSX-8000 Add-on Kit
DSX2-8000-ADD-R	DSX2-8000 Add-on Kit with Remote (not compatible with original Versiv main)
DSX2-8-CFP-Q-ADD/R	DSX2-8000 with Quad OLTS Add-on Kit with V2 Remote (not compatible with original Versiv main)
DSX-8000-OPF-Q-ADD	DSX-8000 with Quad OTD Add-on Kit
DSX-PLA804S	DSX-8000 Cat 8/Class I Permanent Link Adapter Set
DSX-PLA804-RKIT	Cat 8 PLA Adapter – Plug Replacement Kit
DSX-CHA804S	DSX-8000 Cat 8/Class I Channel Adapter Set
DSX-CHA-8-TERA-S	DSX-8000 TERA Channel Adapter Set
DSX-PLA-8-TERA-S	DSX-8000 TERA Permanent Link Adapter Set
DSX-8-TERA-KIT	DSX-8000 TERA Permanent Link & Channel Adapter Set
DSX-CHA-8-GG45-S	DSX-8000 GG45/ARJ45 Channel Adapter Set (2 GHz)

DSX-8000 Gold Support models	
Model	Description
GLD-DSX-8000	1 year Gold Support, DSX2-8000 or DSX-8000
GLD3-DSX-8000	3 year Gold Support, DSX2-8000 or DSX-8000
GLD-DSX-8000MI	1 year Gold Support, DSX2-8000MI or DSX-8000MI
GLD3-DSX-8000MI	3 year Gold Support, DSX2-8000MI or DSX-8000MI
GLD-DSX-8000QI	1 year Gold Support, DSX2-8000QI or DSX-8000QI
GLD-DSX-8000QOI	1 year Gold Support, DSX2-8000QOI or DSX-8000QOI
GLD3-DSX-8000QOI	3 year Gold Support, DSX2-8000QOI or DSX-8000QOI
GLD-DSX-8000PRO	1 year Gold Support, DSX2-8000-PRO or DSX-8000-PRO
GLD3-DSX-8000PRO	3 year Gold Support, DSX2-8000-PRO or DSX-8000-PRO
GLD-DSX-8-ADD-R	1 year Gold Support, DSX2-8-ADD-R or DSX-8000-ADD-R
GLD3-DSX-8-ADD-R	3 year Gold Support, DSX2-8-ADD-R or DSX-8000-ADD-R
GLD-DSX8-CFPQADD/R	1 year Gold Support, DSX2-8-CFP-Q-ADD/R or DSX-8-CFP-Q-ADD/R
GLD3-DSX8-CFPQADDR	3 year Gold Support, DSX2-8-CFP-Q-ADD/R or DSX-8-CFP-Q-ADD/R

DSX2-5000 Wireless models

Model	Description
DSX2-5000	1GHZ DSX-5000 CableAnalyzer with Wi-Fi
DSX2-5000/GLD	1GHZ DSX-5000 CableAnalyzer with Wi-Fi and 1 YR Gold Support
DSX2-5000QI	1GHZ DSX-5000 CableAnalyzer with Quad OLTS, Fiber Inspection and Wi-Fi
DSX2-5000QI/GLD	1GHZ DSX-5000 CableAnalyzer with Quad OLTS, Fiber Inspection, Wi-Fi and 1 YR Gold Support

DSX2-5000 Non-wireless models

Model	Description
DSX2-5000-NW	1GHZ DSX-5000 CableAnalyzer

DSX2-5000 Accessories

Model	Description
DSX-ADD	DSX-5000 Add-on Kit
DSX2-ADD-R	DSX2-5000 Add-on Kit with Remote (not compatible with original Versiv main)
DSX2-CFP-Q-ADD-R	DSX2-5000 with Quad OLTS Add-on Kit with Remote (not compatible with original Versiv main)
DSX-OFQ-Q-ADD	DSX-5000 with Quad OTDR Add-on Kit
DSX-PLA011S	DSX-5000 TERA Cat 7A/Class F _A PLA Set
DSX-CHA011S	DSX-5000 TERA Cat 7A/Class F _A CHA Set
DSX-CHA-5-GG45-S	DSX GG45/ARJ45 Class F _A Channel Adapter Set (1 GHz)

Accessories for the DSX CableAnalyzers Series

Model	Description
DSX-PLA004S	DSX Cat 6A/Class E _A Permanent Link Adapter Set
DSX-PLA004-RKIT	Cat 6A/Class E _A PLA Adapter – Plug Replacement Kit
DSX-CHA004S	DSXcCat 6A/Class E _A Channel Adapter Set
DSX-COAX	DSX Coax Adapter Set
DSX-CHA021S	DSX M12 4-Position Adapter Set
DSX-PC5ES	DSX Patch Cord Test Adapter Set for Cat 5e patch cords
DSX-PC6S	DSX Patch Cord Test Adapter Set for Cat 6 patch cords
DSX-PC6AS	DSX Patch Cord Test Adapter Set for Cat 6A patch cords
DSX-PC5E	Single Patch Cord Adapter for Testing Cat 5e MPTL
DSX-PC6	Single Patch Cord Adapter for Testing Cat 6 MPTL
DSX-PC6A	Single Patch Cord Adapter for Testing Cat 6A MPTL
Versiv-TSET	VERSIV Headphones
VERSIV-BATTERY	VERSIV Battery
VERSIV-ACUN	VERSIV Charger
VERSIV-STRP	VERSIV Hand Strap
VERSIV-STND	VERSIV Demo Stand

DSX-5000 Gold Support models

Model	Description
GLD-DSX-5000	1 year Gold Support, DSX2-5000 or DSX-5000
GLD3-DSX-5000	3 year Gold Support, DSX2-5000 or DSX-5000
GLD-DSX-5000QI	1 year Gold Support, DSX2-5000QI or DSX-5000QI
GLD3-DSX-5000QI	3 year Gold Support, DSX2-5000QI or DSX-5000QI
GLD-DSX-ADD-R	1 year Gold Support, DSX2-5000-ADD-R or DSX-ADD-R
GLD3-DSX-ADD-R	3 year Gold Support, DSX2-5000-ADD-R or DSX-ADD-R
GLD-DSX-CFP-Q-ADDR	1 year Gold Support, DSX2-CFP-Q-ADD/R or DSX-CFP-Q-ADD-R
GLD3-DSX-CFP-Q-ADD	3 year Gold Support, DSX2-CFP-Q-ADD/R or DSX-CFP-Q-ADD-R

For a complete list of models, options, accessories and specifications please visit www.flukenetworks.com/dsx.