





CABLING CERTIFICATION TESTER



WireXpert 500 series – Overview

WireXpert 500 is an affordable und upgradable cabling certification tester that can grow with your needs. Invest today only in options that are really needed and upgrade the device later when necessary. Options are available for either copper cabling certification up to CAT 6A/Class EA, a fiber optic multimode and singlemode tier 1 certification or a combined copper and fiber certification tester. The individual options can be easily upgraded with a license key. If you need in the future certification up to CAT 8/Class I and II, all models can be upgraded to that frequency range as well.

Full flexibility with the WireXpert 500 series

You can now choose between three product versions:

- WireXpert 500 copper version
- WireXpert 500 fiber tester
- WireXpert 500-PLUS a combined fiber and copper-certifier

And when your requirements change? You can easily upgrade all the devices to test copper and fiber or as well to test CAT 8/ Class I and II.

Fast and simple for highest productivity

WireXpert 500 completes CAT 6A certification test in seconds. It offers intuitive navigation through the on screen menus, and generates professional reports through the accompanying **e** port eXport PC software.

WireXpert 4500 Copper & Fiber & CAT 8 **UPGRADE** WireXpert 500-PLUS **Fiber** Copper **UPGRADE** WireXpert 500 Copper **Fiber**

eXport Software: Professional Data Management

- WireXpert 500 includes eXport computer-based reporting software.
- eXport facilitates data management and generation of professional reports and warranty documents. In addition, eXport Software enables list-based testing, a hierarchical cable labelling scheme.
- With export it is also possible to correct measurements which were initially performed with incorrect measurement standards.
- With re-certification, the operator can apply the right measurement standards to the data retroactively.
- Data integrity remains because the date of the measurements does not change.

Proven Accuracy

WireXpert 500 is based on measurement system independently verified by highly respected test laboratories including ETL.

XpertCare Support Program



To protect the investment in cable certifiers, they require care and occasional maintenance. If you use your WireXpert constantly and are concerned about periods of downtime, we are offering you the XpertCare Support Program. XpertCare guarantees much more than the standard warranty, so that your investment is protected in the best possible manner.



itnetworks.softing.com/xpertcare-support



WireXpert 500 Copper Certifier

Key Features

- Advanced cable certification up to 500 MHz
- Certifies to Industry standards Class D/E/E_A & Category 5e/6/6A
- Meets TIA and ISO Level IIIe accuracy requirements
- Certification testing of Patch cords
- Industrial Ethernet testing with RJ45 and M12 connectivity,
 E2E link testing
- Advanced reporting and documentation
- Affordable certifier for premise cabling and Industrial Ethernet

Easy to use and Ruggedized design

WireXpert 500 comes with an intuitive touch sensitive user interface, featuring bright color LCD screens designed for industrial, heavy duty usage. The Dual Control System (DCS TM) – featuring identical devices for remote and local unit – makes it fast and simple to operate the test cycles. Whether used by two technicians or one person working alone, walking time between outlets is minimized.

Industrial Ethernet cabling test

The WireXpert 500 industrial Ethernet cable test solution comprises various test cord kits for measurements in both channel and permanent link configurations and for E2E links (E2E adapters to be ordered separately) using industrial Ethernet connectors, such as the M12 D-coded connector. Available options also include for example test cord kits with an M12 X-coded interface and RJ45 interface, making it possible to effectively test 10-Gig ready Industrial Ethernet cabling.

Coax cable test

WireXpert 500 also supports testing of coaxial cables for attenuation, length, resistance, delay and return loss with the optional coax test adapters.

Fiber Upgrade

The WireXpert 500 can be upgraded to a WireXpert 500-PLUS to test both copper and fiber cabling

The upgrade includes:

- 1 year warrenty
- Tier 1 fiber optic certification software license

Adapters & Accessories for Copper Cabling Certification

- Pair of Class E_A/CAT 6A Channel adapters
- Pair of Class E_A/CAT 6A Permanent link adapters
- Pair of coax adapters
- Pair of CAT 5e/6/6A patch cord adapters
- Hard carrying case

For more options and accessories, please contact your Softing IT Networks Reseller.

WireXpert 500 Kit

WireXpert 500 LAN Copper Cable Certifier – Class D, E, E, and CAT 5e, 6, 6A

Includes:

- 2 Measurement units, LOCAL and REMOTE
- Pair of CAT 6A channel adapters
- Pair of CAT 6A link adapters
- 2 headsets
- Li-Ion batteries
- Power supplies
- USB thumb drive
- Soft carrying case
- Calibration certificate and reporting software



WireXpert 500 Kit

Upgrades for WireXpert 500 Copper Certifier

WireXpert 4500 Upgrade

You can upgrade your copper certifier to test up to 2.500 MHz on twisted pair and coax copper cables up to Class D, E, $\rm E_A$, $\rm F_A$, I, II and CAT 5E, 6, 6A, 8 at anytime.

The upgrade includes:

- 1 year warranty
- CAT 8/Class I and II certification software license
- Calibration certificate

Note: Unit will need to be sent to a service center for upgrade



WireXpert 500 Fiber Certifier

WireXpert 500 fiber only certifier with it's innovative design especially made for customers to certify fiber cabling in a much faster and easier way. It is also cost efficient and future proof and can be upgraded to WireXpert 4500. It has a Multimode EF version as well as a Quad version (MMEF + SM). It also has a MPO version available.

Features

- Perform Tier 1 Certification for ISO/IEC and TIA 568 C.3 Standards
- Options available to certify length and loss for Singlemode at 1,310 nm-1,550 nm and Multimode EF cabling at 850 nm-1,300 nm
- Seamlessly integrates copper and fiber reports into eXport report generator software, allowing users to generate professional warranty and certification test reports
- Double your productivity with DCS [™] technology by using each unit as an independent optical certifier

Multimode and Singlemode Kits (WireXpert 500-MMEF*/WireXpert 500-SM**)

WireXpert optical loss kits are available for both Multimode* and Singlemode** fiber networks. The modular solution allows testing both types of networks on the same WireXpert unit with interchangeable adapters. Each module lets you perform very accurate loss and length measurements at two wavelengths meeting all the various standard requirements. Both kits support certification of horizontal as well as back-bone cabling by supporting dual wavelength measurement on each adapter.

MPO Testing Kits (WireXpert 500-MPO)

WireXpert's versatile MPO testing solution enables datacenter IT managers to get quick and accurate assessment of the quality of MPO links. Additionally, it helps in performing incoming inspection of MPO components like cassettes. The key feature of this solution is a 5-second Autotest that includes a detection of fiber connection map and measurement of loss on each channel.

Quad Kit (WireXpert 500-QU)

The WireXpert 500 Fiber Certifier is also available in a QUAD configuration. In this configuration, the fiber certifier will be shipped with a kit of multimode MMEF modules as well as singlemode modules.

Available accessory: Digital fiber video microscope

Connector end-faces have to be inspected and evaluated to avoid contamination and destructive damage of the connector's contact zone before testing fiber-optic links and every time fiber optic connectors are mated

- Inspection and evaluation of connector end-face at the touch of a button
- Automated analysis compliant with IEC 61300-3-35
- Compatible with WireXpert and FiberXpert, connect via USB
- Adapters for the most common fiber-optic connectors are included in the delivery





Upgrades for WireXpert 500 Fiber Certifier

Copper Upgrade

You can always upgrade your fiber certifier to test also copper up to 500 MHz on twisted pair and coax copper cables up to Class D, E, E_a and CAT 5e, 6, 6A

The upgrade includes:

- 1 year warranty
- Class E_₄ certification software license
- Calibration voucher

WireXpert 4500 Upgrade

You can upgrade your fiber certifier to test up to 2,500 MHz on twisted pair and coax copper cables up to Class D, E, $\rm E_A$, $\rm F_A$, I, II and CAT 5E, 6, 6A, 8 at anytime.

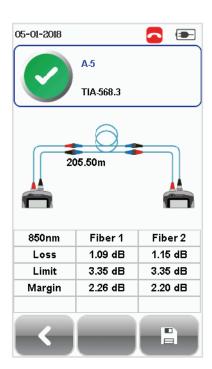
The upgrade includes:

- 1 year warranty
- CAT 8/Class I and II certification software license
- Calibration certificate

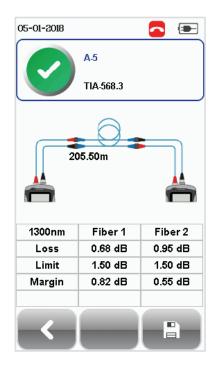
Note: Unit will need to be sent to a service center for upgrade



MMEF Fiber AUTOTEST results



Detailed results for 850 nm



Detailed results for 1,300 nm



WireXpert 500-Plus: Copper and **Fiber Certifier**

WireXpert 500-Plus for copper and fiber certification sets new standards for user friendliness, with touch screen graphical interface on both Local and Remote units. The innovative design combines superior measurement accuracy with low cost of ownership and ease of use. The WireXpert 500 units support measurements in the frequency range of 1-500MHz and can be upgraded to the widest frequency range of up to 2,500MHz.

Features

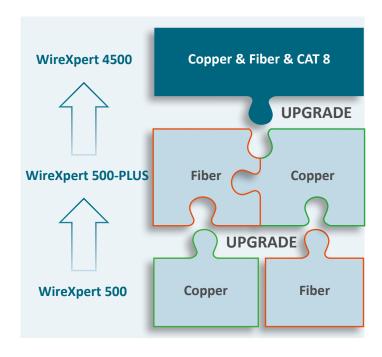
- Combined 500 MHz copper and MM + SM fiber optic tester
- Most advanced cable certification for all standards: Class D/E/E_A, Category 5e/6/6A
- Accuracy independently verified by ETL
- Exceeds ISO and TIA Level IIIe accuracy requirements
- Endorsed by companies worldwide
- Many measuring modules available e.g. patchcord testing, Industrial Ethernet, RJ45, MMC PRO
- Perform extended Fiber certification for 850-1,300 MM and 1,310-1,550 SM Fiber
- MPO Multimode
- Advanced reporting and documentation
- The only certifier supporting all data center, premise cabling and industrial ethernet requirements

Easy to use and ruggedized design

WireXpert comes with an intuitive touch sensitive user interface, featuring bright color LCD screens designed for industrial, heavy duty usage. The Dual Control System (DCS [™]) – featuring identical devices for Local and Remote units - makes it really easy to operate the test cycles. Whether coordinated by two technicians or only one, walking time between outlets is minimized.

Fast and simple for highest productivity

WireXpert completes CAT 6A, and fiber certification test in a few seconds. It offers intuitive navigation through the screens on the device, and generates professional reports through its PC software export.



Upgrade for WireXpert 500-PLUS

WireXpert 4500 Upgrade

You can upgrade your copper/fiber certifier to test up to 2,500 MHz on twisted pair and coax copper cables up to Class D, E, E_A , F_A , I, II and CAT 5e, 6, 6A, 8 at anytime.

The upgrade includes:

- 1 year warranty
- CAT 8/Class I and II certification software license
- Calibration certificate

Note: Unit will need to be sent to a service center for upgrade



Comparison Table	WireXpert 500 Copper	WireXpert 500 Fiber	WireXpert 500 Copper & Fiber	WireXpert 4500
Which is the one for you?	WireXpert 500	WireXpert 500-MMEF, WireXpert 500-SM, WireXpert 500-QU, WireXpert 500-MPO	WireXpert 500-PLUS	WireXpert 4500
Application				
Frequency Range	500 MHz upgradable to 2,500 MHz		2,500 MHz	
CAT/Class	CAT 6A/Class E _A		CAT 6A/Class E _A	CAT 8/Class I & II
Dual Control System (DCS ™) Touch screen on both units	•	•	•	
Optional Digital Fiber Video Microscope				
Copper Test and Measurement Parameters				
Wiremap		n/a		
Length		n/a		
Tone Generator		n/a		
RF Measurements (NEXT; Insertion Loss, Return Loss,)		n/a		
Delay Skew, Delay, Resistance		n/a		
Fiber Test and Measurement Parameters				
Wavelength	n/a	n/a 850 nm-1,300 nm 1,310 nm-1,550 nm		,550 nm
Length	n/a			
Attenuation	n/a		•	
Reporting				
PC Reporting software eXport				

Copper Fib	er
------------	----

Shipping Configuration	All sets come with 2 power supplies, 2 headsets, a quick start guide, a 4 GB USB-Stick with software and manuals, and a soft carrying case (hard case optional).	
WireXpert 500 (Copper)	 1 Local & 1 Remote unit with 500 MHz copper test license 2 CAT 6A Link adapters including cables 2 CAT 6A Channel adapters 	
WireXpert 500 (Fiber)	 1 Local & 1 Remote unit with fiber test license WireXpert 500-MMEF includes complete MMEF kit WireXpert 500-SM includes complete SM kit WireXpert 500-QU includes complete MMEF & SM kits WireXpert 500-MPO includes complete MPO kit 	
WireXpert 500 PLUS (Copper & Fiber)	 1 Local & 1 Remote unit with 500 MHz copper and fiber test license 2 CAT 6A Link adapters including cables 2 CAT 6A Channel adapters 	
WireXpert 4500 (Copper & Fiber)	 Note: Fiber test heads to be purchased separately 1 Local & 1 Remote unit with 2,500 MHz copper and fiber test license 2 CAT 6A Link adapters including cables 2 CAT 6A Channel adapters Note: Fiber test heads to be purchased separately 	







TIA 568-C.2 CAT 5e, 6, 6A ISO/IEC 11801, EN 50173 Class D, E, E _A
ISO/IEC 11801, EN 50173 Class D, E, E _A
Patch-cord CAT 5e, 6, 6A testing
500 m
Channel: 10,000 typical
Permanent link: 5,000 typical As specified in TIA 1152, IEC 61935-1
76 Specified III 117 1132, 126 01333 1
0 to 40 Ω, ±0.1 Ω
0 to 500 m, ±0.5 m (dual-ended testing)
0 to 5000 ns, ±1 ns
0 to 70 dB, ±0.1 dB
0 to 85 dB, ±0.2 dB
0 to 85 dB, ±0.2 dB
0 to 40 dB, ±0.2 dB
0 to 85 dB, ±0.5 dB
Time-domain fault Locator for RL and NEXT
Exceeds TIA 1152 Level IIIe, IEC 61935 Level IIIe
1-500 MHz
1,310 nm-1,550 nm
SC, LC (optional adapter needed)
TIA 568 C.3, IEC 14763-3
0 to 31 dB, ±0.2 dB
0 to 20,000 m, ±1.5 m
-5 dBm to -9 dBm
-40 dBm
850 nm-1,300 nm
SC/FC-SC
TIA 568 C.3, IEC 14763-3
0 to 24 dB, ±0.2 dB
0 to 2,000 m, ±1.5 m
24 dB/12 dB
-4 dBm to -10 dBm / -16 dBm to -20 dBm
-34 dBm / -40 dBm
IEC 61280-4-1 (MMEF)
650 μm (MMEF)
0 dBm (MMEF)
Proha Interface DI 45 5thernet LISP heat and
Probe Interface, RJ-45 Ethernet, USB host and device, talk set, power jack
Industrial-grade LCD display, 6" touch sensitive area
Ruggedized plastic with rubber over-mold,
withstands 1.5 m drop test on hard surface
View test results, save tests, start autotest
AC 100-240 V to 12 V, 3A power adapter
Protected against Telco voltages
Removable and rechargeable Li-lon
>8 hours continuous operation
>6,000 copper test results with full plot information
for CAT 6A
USB Flash Drive
223 X 124 X 70 mm (including a 6ACH adaptor)
1 kg
TW, CS, EN, FI, FR, DE, IT, JA, KO, PL, PT, RU, ES, SV, TR
1 year
0 to 40 °C
0 to 40 °C
-20 to 60 °C
-20 to 60 °C 10% to 80%
-20 to 60 °C 10% to 80% R REPORTING SOFTWARE
-20 to 60 °C 10% to 80%

Contact

ASIA/PACIFIC

Singapore

73 Science Park Drive #02-12/13 Cintech I Singapore Science Park 1 Singapore 118254 Phone: +65-6569-6019

e-mail: asia-sales.itnetworks@softing.com

For technical information and support please contact the Softing office in your country.

it networks. softing. com

For more information please contact

©2018 Softing IT Networks. In line with our policy of continuous improvement and feature enhancement, product specifications are subject to change without notice. All rights reserved. Softing and the Softing Logo are trademarks or registered trademarks of Softing AG. All other trademarks, registered or unregistered, are sole property of their respective owners.



Microsoft.NET Framework 4.0