

Cutting edge measurement for
information technology

Our products at a glance

Best IT network measurement with cutting edge technology



FIBERXPERT
700

WireXpert
Series

FiberXpert
OTDR 5000



NETXPERT
XG2-Series

CERTIFIERS

- › Classical acceptance measurements of networks
- › Assessment against application-neutral standards and norms
- › Variety of measured and calculated measurement parameters as PASS/FAIL basis for CU and FO links
- › Determination of polarity and continuity of fiber optic links



CABLEMASTER
Series



LINKXPERT
Series

VERIFIERS

- › Basic test of the cabling
- › Determination of polarity and continuity of fiber optic lines
- › Performance testing for fiber optic links
- › PoE++ load test
- › Ethernet network diagnostics

QUALIFIERS

- › Determination of the transmission performance of data links using parameters from the application-related standards
- › Reliable PASS/FAIL statements
 - for CU links with a combination of wiring test, signal-to-noise ratio, BERT and delay skew
 - for fiber optic links with a combination of BERT, attenuation determination and connector end-face evaluation

ACCESSORIES



CableProbe CP15



Video microscope

You can find more accessories on our website.

Everything about our measuring instruments for fiber optic cabling:



SCAN ME

(itnetworks.softing.com/FO)

Everything about our measuring instruments for copper cabling:



SCAN ME

(itnetworks.softing.com/CU)

Testers for data, voice, and video cabling

Verifiers



Article number	226101	226102	226103	226104
Application				
CABLING TESTS				
Wiremap (indication of shorts, opens, reversals, miswires, split pairs)				
Tone generator				
Length determination (incl. interruption localization, also without remote unit)				
Short-circuit localization via TDR				
Numbered terminations (Wiring test and port assignment)	up to 8 remotes	up to 8 remotes	up to 8 Smart Remotes	up to 8 Smart Remotes
Numbered terminations (Port mapping) #1-#24				
Voltage warning				
NETWORK TESTS (ETHERNET CONNECTIVITY TESTING AND FAULT ANALYSIS)				
Activation switch port LED				
Ethernet detection			up to 1Gb/s	up to 10Gb/s
Ethernet connection at 1Gb/s				
Configurable autotest (test profiles)				
Network scan (IPv4/IPv6/MAC) with double IP detection				
DHCP, LLDP/CDP, Ping, Traceroute, VLAN				
802.1x authentication				
CU				
Active network tests				
PoE detection and load measurement (PoE/PoE+/PoE++)				
FO				
Active network tests (with optional SFP module)				
Integrated Visual Fault Locator				
Video microscopy with optional video microscope				
WI-FI (with external USB stick)				
Active network tests (2.4/5GHz 802.11ac, a, b, g, n)				
Wi-Fi signal strength, SSID, BSSID, channel				
SOFTWARE/DOCUMENTATION				
Data management / reporting				
PRODUCT SPECIFICATIONS				
Display	2¼" monochrome	2¾" color	5¼" HD color touch	5¼" HD color touch
Backlight				
Remote type	detachable	detachable	external	external
Test interface	RJ45	RJ45	RJ45 (optional: Coax, RJ11)	RJ45 SFP 1G-Slot, Wi-Fi (optional: Coax, RJ11)
Integrated flashlight				
PASS/FAIL evaluation with signal tone				
Data interface			USB A	USB A



Testers for data, voice, and video cabling



CABLEMASTER₂₁₀

Compact and economical continuity and wiring tester

The ergonomic handheld tester is easy to operate, its large display directly shows easy-to-understand messages. It belongs to the basic equipment of every installer.

Article number: **226101** itnetworks.softing.com/cm210



LINKXPERT_{TP}

The multitool for easy testing of twisted pair LAN networks

LinkXpert TP is the perfect companion for troubleshooting copper cabling and LAN Ethernet problems in both SOHO and office environments as well as industrial applications.

Article number: **226103** itnetworks.softing.com/LinkXpert-TP



CABLEMASTER_{PoE}

Versatile cable, wiring and PoE++ tester

CableMaster PoE combines test functions for wiring testing incl. split-pair detection, tone generation, length determination and PoE++ tests in one handy, easy-to-use device. Suitable for installation, troubleshooting and maintenance.

Article number: **226102** itnetworks.softing.com/cmPoE



LINKXPERT_{M3}

The 3 media multitool for easy testing of LAN networks

LinkXpert M3 is a versatile cabling and network troubleshooter that helps solve network problems from cabling to complex Ethernet issues. With connectivity to all 3 media – copper, fiber and Wi-Fi – LinkXpert M3 is perfect for diagnosing all common LAN Ethernet networks.

Article number: **226104** itnetworks.softing.com/LinkXpert-M3



CABLEMASTER_{FO}

Multifunctional Optical Power Meter

CableMaster FO integrates the functions of optical power measurement, a visual fault locator (VFL/red light) and a flashlight. It is suitable for applications such as FTTX broadband installations, maintenance tests and attenuation/power measurement.

Article number: **226109** itnetworks.softing.com/cmFO



CABLEMASTER_{VFL}

Visual Fault Locator

Visual fault detector in a compact design. Determines the polarity and continuity of fiber optic lines.

Article number: **226114** itnetworks.softing.com/cmVFL



Kits for LinkXpert series

Installer Kit

Complete equipment for copper and coaxial measurements including port identification & cable finder
(for LinkXpert TP and M3)

Art. no. 226105

Professional Kit

Complete equipment for professional applications for all networks - consists of installer and fiber kit
(for LinkXpert M3)

Art. no. 226106

Industrial Kit

Complete equipment for industrial applications, includes special Harting prelink® system with adapted M12 adaptations and extensions for copper cable testing incl. port identification & cable finder
(for LinkXpert TP and M3)

Art. no. 226107

Fiber Kit

Complete equipment for fiber optic measurements including matching MM/SM SFP modules
(for LinkXpert M3)

Art. no. 226108



Copper

	Verifiers				Qualifiers	Certifiers
	CableMaster 210	CableMaster PoE	LinkXpert TP	LinkXpert M3	NetXpert XG2/XG2-PLUS	WireXpert 500/500-PLUS/4500/4500-PRO

Article number	226101	226102	226103	226104	226735 (PLUS) 226736 (10 G) 226739 (2,5/5G) 226737 (1G)	228071 (500) 228144 (500-PLUS) 228070 (4500) 228280 (4500-PRO)
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Application						
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TYPICAL AREAS OF APPLICATION

Checking wiremap	✓	✓	✓	✓	✓	✓
Network tests			✓	✓	✓	
PoE measurement (Class 0 - Class 8, 15.4W - 90W, according to IEEE)		✓	✓	✓	✓	✓ (DCRU)
Test of the cabling according to IEEE (100Mb/s, 1Gb/s, 2.5Gb/s, 5Gb/s, 10Gb/s)					✓	
Acceptance measurement according to cabling standard ISO/IEC 11801, EN 50173, ANSI/TIA 568						✓

CABLING TESTS

Wiring	✓	✓	✓	✓	✓	✓
Tone generator	✓	✓	✓	✓	✓	✓
Length		✓	✓	✓	✓	✓
Configurable autotest			✓	✓	✓	✓
Bit error rate test up to 10Gb/s					✓ (depending on model)	
Signal-to-noise ratio					✓	
Transit time difference measurement					✓	✓
RF measurement (NEXT, insertion loss, return loss)						✓
Measuring frequency up to 2500MHz						✓ (WireXpert 4500)

NETWORK TESTS

Ethernet connection			✓ (up to 1Gb/s)	✓ (up to 1Gb/s)	✓ (up to 10Gb/s)	
Ethernet detection			✓ (up to 1Gb/s)	✓ (up to 10Gb/s)	✓ (up to 10Gb/s)	
Configurable autotest (test profiles)			✓	✓		
Network scan (IPv4/IPv6/MAC) with double IP detection			✓	✓	✓	
Activation switch port LED			✓	✓	✓	
DHCP, LLDP/CDP, Ping, Traceroute, VLAN			✓	✓	✓	
802.1x authentication				✓		

WI-FI

Active network tests (2.4/5GHz 802.11ac, a, b, g, n)				✓	✓	
Wi-Fi signal strength, SSID, BSSID, channel				✓	✓	

DOCUMENTATION

Test report creation in the device			✓	✓	✓	✓
PC evaluation software			in preparation	in preparation	in preparation	✓
Enterprise cloud connectivity						✓



Fiber optic

	Verifiers		Qualifiers	Certifiers		
	CableMaster FO	LinkXpert M3	NetXpert XG2/XG2-PLUS	WireXpert 500/500-PLUS/4500/4500-PRO	FiberXpert 700	FiberXpert OTDR 5000
Article number	226110	226103	226735 (PLUS) 226736 (10 G) 226739 (2.5/5 G) 226737 (1G)	228144 (500-PLUS) 228070 (4500) 228280 (4500-PRO)	237114	226534 (Quad)
Application						
TYPICAL AREAS OF APPLICATION						
IP tests		✓	✓			
Test of cabling according to IEEE (1Gb/s, 10Gb/s)			✓ (max. speed depending on model)			
Acceptance measurement according to cabling standard				✓	✓	✓
WAVELENGTHS						
Red light (635nm)	✓	✓		✓		
Multimode (850/1300nm)	✓	✓	✓	✓	✓	✓
Singlemode (1310/1550nm)	✓	✓	✓	✓	✓	✓
Special applications, e.g. FTTX (980/1490/1625nm) (only Powermeter)	✓ (1490/1625/1650nm)				✓ (980/1490/1625nm)	✓ (1490/1625/1650nm)
CABLING TESTS						
Fiber assignment / polarity	✓	✓		✓ (with MMEF adapter)		
Detection/measurement of performance and attenuation	✓ (with external light source)		✓ (inklusive LiveLight™)	✓	✓	✓
Length measurement			✓	✓		✓
Configurable autotest			✓	✓	✓	✓
Bit error rate test up to 10Gb/s			✓ (depending on model)			
Event localization						✓
Video microscopy		✓	✓	✓		✓
NETWORK TESTS						
Ethernet detection/connection		✓ (up to 1Gb/s)	✓ (up to 10Gb/s)			
Configurable autotest (test profiles)		✓				
Network scan (IPv4/IPv6/MAC) with double IP detection		✓	✓			
Activation switch port LED		✓	✓			
DHCP, LLDP/CDP, Ping, Traceroute, VLAN		✓	✓			
802.1x authentication		✓				
WI-FI						
Active network tests (2,4/5 GHz 802.11ac, a, b, g, n)		✓	✓			
Wi-Fi signal strength, SSID, BSSID, channel		✓	✓			
DOCUMENTATION						
Test report creation in the device		✓	✓			✓
PC evaluation software		in preparation	in preparation	✓	✓	✓
Enterprise cloud connectivity				✓		

