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softing

NetXpert XG



IT Networks

CABLE AND LAN QUALIFIER

from 100Mb/s to 10Gb/s

itnetworks.softing.com/us/netxpertxg/

The all-in-one cable qualifier

New standards defining data rates up to 10Gbit/s are a big challenge. Older, existing cabling for wireless access points has to support ever increasing data rates. In order to prove that the cabling installed is able to support the increased data rates, operators need to perform application qualification testing before commissioning the network to avoid any unpleasant surprises.

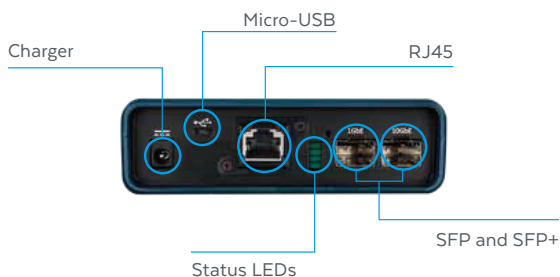
Prove and document the application speed across copper and fiber cables; test active networks over copper, fiber, and WiFi; and test and prove POE performance with NetXpert XG.

TEST FOR HIGHEST NETWORK SPEEDS WITH YOUR QUALIFIER

The NetXpert XG qualifies your cabling transmission rates of to 10Gbit/s, and components in-between, including patch panels or outlets installed, regardless of the cable category installed.

NetXpert XG proves performance with three individual tests combined into an overall test result. Signal-to-noise ratio (SNR) followed by a Bit Error Rate Test (BERT) and then delay skew qualify Gigabit transmission. BERT sends millions of bits down the cable and checks for errors at the other end. SNR helps ensure that too much noise isn't masking your signal. Delay skew indicates the signal time delay between the wire pairs used. Excessive delay can result in a serious degradation of transmission performance, making it impossible for the receiver to interpret the data stream correctly. All 3 tests are critical in proving reliable data transmission.

MAIN UNIT PORTS



ACTIVE REMOTE UNIT PORTS



PERFORM COPPER AND FIBER CABLE TESTS

- Tests data cabling for IEEE 802.3 compliance at data rates of up to 10Gbit/s
- Bit Error Rate Test (BERT)
- Signal-to-noise ratio (SNR) (copper)
- Measures delay skew (copper)
- Combined length measurement performing TDR and capacitance measurements for highly accurate test results and easier troubleshooting even of shorts
- Full-color wire map shows opens, shorts, miswires, and split pairs in a clear and easy to understand way
- Length & Loss measures length of fiber, light loss value, and Softing's exclusive LiveLight™, the light loss trend value displayed on the color screen, on a continuous, real-time plot
- Saves test results and generates standards-based measurement reports providing "Pass/Fail"

INCLUDING PORTS FOR FIBER OPTIC MEASUREMENTS

The NetXpert offers full flexibility regardless of whether you are measuring fiber or copper cabling. Using its available SFP/SFP+ ports, various active fiber tests such as protocol detection (CDP/LLDP), network ping test and network discovery can be performed.

Use two NetXpert XG main units purchased separately, or purchased together in the NetXpert XG Plus Kit, to qualify fiber optic cabling by connecting one main unit at each end of the cable.



The NetXpert XG generates detailed and summarized reports in PDF or CSV format with your company logo. The reports can be exported from your device via a USB stick.



Connect the Main Unit via copper, fiber, or WiFi to switch to perform a network discovery test.

ACTIVE NETWORK MANAGEMENT

- Connect to a network switch via copper, fiber, or WiFi (2.4GHz and 5GHz)
- Supports IPv4 and IPv6
- Detection of duplicate IP addresses in the network
- Discover your network and see the connected network devices
- Identifies defective PoE switches with a PoE load test
- DHCP test
- Ping lists can be defined and saved for later use
- LLDP/CDP detection and analysis
- Identifies VLANs present in your network
- Data transfer from the tester to the PC using USB stick

TROUBLESHOOTING OF ACTIVE PoE/ PoE+/++ NETWORKS

NetXpert XG is a complete solution for active PoE network troubleshooting. This includes load tests for voltage drop to verify stability of PoE supplies, identification of the devices connected to the network, and detection of availability of priority devices.

NetXpert XG offers internal storage for large projects, and generates complete standards-based test reports.

Available accessories turn NetXpert XG into the ultimate multi-tool; locate individual cables with the built-in tone generator or the Remote Identifiers, inspect fiber end faces with the USB fiber microscope, clean fiber with XpertClean kits, generate documentation for testing and troubleshooting.

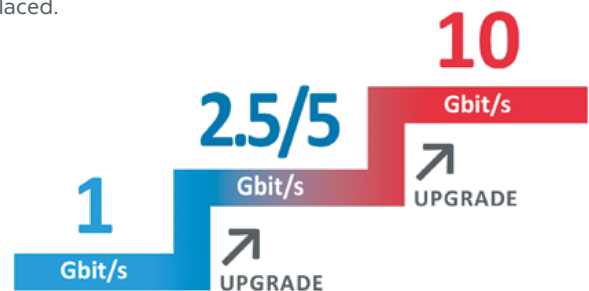
GET FASTER RESULTS

For multi-cable tests, the simple one touch autotest can be initiated either from the Main Unit or from the Active Remote, saving time spent walking between outlets and reducing the overall working time. For single cable tests, and when troubleshooting, all cable tests can be performed individually to minimize fault-finding time.

WELL-EQUIPPED FOR THE CHALLENGES OF THE FUTURE

NetXpert XG ensures a future-proof start into the new era of high-speed qualification. The NetXpert series offers simple firmware upgrades, and a license upgrade system that allows for later upgrades and to add new features. There are 4 options (NetXpert 1G, NetXpert 5G, NetXpert 10G, and NetXpert XG Plus). The purchase of an upgrade license always extends the functionality of a lower end device one step upwards.

All wear parts (e.g. RJ45 jack) can easily and conveniently be replaced.



USER-FRIENDLY OPERATION

Continuity test results of all 8 wires and the shielding are displayed in wire map format in full color, while showing cable faults such as opens, shorts, miswires, and split pairs in a clear and easy to understand way. NetXpert determines the cable length and the distance to faults performing a full TDR (Time Domain Reflectometer) measurement in combination with a capacitance measurement for increased accuracy.

The large high-resolution touch screen display facilitates work not only in daylight but also in poor lighting conditions, while the 7" touch screen provides sufficient space to ensure excellent readability of the displayed test results.



SPECIFICATIONS

Prove Ethernet Speed with BERT	100Mbit/s to 10Gbit/s via Copper Twisted Pair (and license) cabling 1 Gbit/s, 10Gbit/s via fiber SFP-ports
Length Measurement Technology	Time-Domain Reflectometry (TDR) and capacitance
Cable Measurements	Cable Testing and ID: up to 1,000ft (305m) Split Pair Detection: 3ft (1m) to 1,000ft (305m) Length Measurement: 0 to 1,500ft (457m), $\pm$ (5%+1ft (30cm)) Distance to fault: 0 to 656ft (200m) $\pm$ (5% + 3ft (1m)) Supports 8 wiremap remotes (RJ 45) and 24 RJ-45 ID only remotes
Power over Ethernet (PoE)	Test supports IEEE 802.3af PoE (Type 1, max 15.4W), IEEE 802.3at PoE+ (Type 2, 30W) and 802.3bt PoE++ (Type 3, 60W)
Active Ethernet	Network and test support by interface: Copper RJ-45 interface – 100/1,000/2,500/5,000/10,000Mb/sec link speeds Fiber SFP+ #1 interface supports 10Gb/sec link speed Fiber SFP #2 interface supports 1Gb/sec link speed WiFi 802.11 a/b/g/n/ac 2.4Ghz, 5GHz WiFi, and Bluetooth
Maximum Voltages	Maximum voltage that can be applied to any 2 connector pins without causing damage to the tester: RJ-45: 60VDC or 50VAC
Save Test Results	16GB memory allows storing more than ten thousand cable or network tests
Tone Generation	Tone Frequencies: 730Hz and 1440Hz
Languages	English, German, French, Spanish, Italian
Battery	Li-Ion, 7.2VDC, 3.1A-hr 5 hours typical
Temperature	Operating: 14 to 140°F (-10 to 60°C) Storage: -22 to 158°F (-30 to 70°)
Humidity	10 to 90% non-condensing
Enclosure	Injection molded plastic
Display	7" Color TFT-LCD capacitive touch display, 1024x600 resolution (WSVGA)
Size	9.6x6.9x2.8 inch (245x177x73 mm) (Main Unit) 5.1x6.9x2.1 inch (130x177x55 mm) (Active Remote)
Weight with Battery	2,65lbs (1,2kg) (Main Unit) 1,33lbs (0,6kg) (Active Remote)

DELIVERY

NetXpert XG (1G, 5G, 10G)

- 1 NetXpert XG Main Unit
- 1 Active Remote
- 2 Power supplies
- 2 Test cables
- 1 Hard case
- 1 Micro-USB adapter

(includes activation code when upgrade license is ordered)

NetXpert XG Plus

- 2 NetXpert XG Main Unit
 - 1 Active Remote
 - 3 Power supplies
 - 2 Copper test cables
 - 4 Fiber duplex patch cables LC/LC, OM4 and OS2
 - 1 Hard case
 - 1 Micro-USB adapter
- (includes 4 activation codes)

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