Net X pert XG

optimize!
softing

Copper   Fiber

LAN QUALIFIER
cable tester and active network manager

NetXpert XG

10G Cable Tester and Network Manager

Copper, Fiber, and 10G bit error rate tester

- Cable tester and active network manager
- Copper and fiber ready
- 10G bit error rate tester (BERT)
- POE tester
- Large, brilliant color touch screen
- Cloud reporting
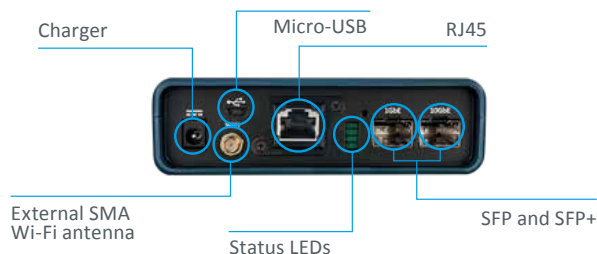- Extendable platform

Find your speed limits with the NetXpert XG

Wireless access point speeds at the end of the network are out-pacing the speeds of the installed cabling in the middle of the network. Is it possible that your installed cabling will handle speeds beyond design spec and will keep up with speeds of the new wireless access points? Is it possible to leave your CAT 5e and CAT 6 cables in place, and achieve 10G speeds?
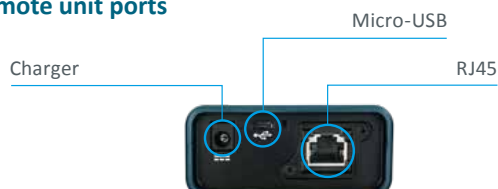
To find out, with the single press of a button, three key tests are run with the NetXpert XG. In one click, NetXpert XG performs a live speed test sending 10Gb/s through your 1Gb cable (BERT), and will *prove* if the cable will perform beyond design spec and keep pace with the speed of newly installed access points.

NetXpert XG is the only cable tester and active network manager to perform BERT (bit error rate test), SNR (signal-to-noise ratio), and delay skew to 10G speeds at the press of a button. Now you can perform real-time bit throughput tests to see if your 1G cables will run up to 10Gb.

Main unit ports

Charger
Micro-USB
RJ45
External SMA Wi-Fi antenna
Status LEDs
SFP and SFP+

Active Remote unit ports

Micro-USB
Charger
RJ45

Get Graphical Results

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, mis-wires, and split pairs on a clear and easy to understand graphical display. NetXpert XG 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.

High-resolution 7-inch touch screen

The large high-resolution touch screen is visible in bright daylight and in poor lighting conditions. The 7" touch screen provides space to navigate with excellent readability of results.

Get faster results

The simple one touch autotest can be initiated either from the main unit or from the Active Remote, which saves time spent walking between outlets and reduces the overall task time. When troubleshooting, all cable tests can be performed individually to minimize fault-finding time.

Rugged casing with hanging straps

Equipped with hanging straps at both sides, the NetXpert XG allows for one-handed use, leaving a hand free to connect the NetXpert XG to the next cabling channel under test.

What does network speed qualification mean? 10G network speed qualification means that the NetXpert XG actually transmits 10 billion bits per second across your network cable and counts the errors (BERT). If the NetXpert XG gives your cable a 10G "Pass" result, then your cable has been proven to perform at that speed, and in practice, will run at 10G speed, regardless of what the cable spec says.

Perform cable tests

- NetXpert XG tests data cabling for IEEE 802.3 compliance at data rates up to 10Gb/s (BERT)

- Determines signal-to-noise ratio (SNR)

- Measures delay skew

- TDR performs combined length measurement and capacitance measurements for highly accurate test results and easier troubleshooting, even of shorts

- Full-color wire map shows opens, shorts, mis-wires, and split pairs on a color graphical display

- Saves test results and generate standards-based measurement reports and provide "Pass/Fail" indication

Troubleshooting active PoE++ networks

For troubleshooting active PoE++ networks, NetXpert XG offers a comprehensive tool set. 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 critical devices such as IP cameras, wireless access points, and network routers.

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

Extensive accessories turn the NetXpert XG into the ultimate multi-tool – from locating individual cables with the built-in tone generator or the remote identifiers, to generating measurement documentation, and active network troubleshooting of PoE++ networks.

Perform active network management

- Support for IPv4 and IPv6

- Discover your network and detect 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, wireless, or bluetooth connectivity

Perform fiber optic measurements

The NetXpert XG offers full flexibility regardless of whether you are measuring fiber or copper cabling. Using the available SFP/SFP+ ports, and two local NetXpert XG qualifiers, various active fiber tests such as protocol detection (CDP/LLDP), network ping test, and network discovery can be performed. In the area of passive tests, a throughput test of the fiber optic cabling is also possible.

Extendable Platform

NetXpert XG ensures platform extendability for high-speed qualification.

The NetXpert XG offers simple firmware upgrades, and a license system allows for later upgrades.

There are 3 licensable speed options: 1G, 2.5/5G, and 10G. The purchase of an upgrade license extends the speed of the device one step upwards.

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

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Specifications

Length Measurement Technology	Time-Domain Reflectometry (TDR) and capacitance
Cable Measurements	Cable Testing and ID: up to 1,000 ft (305 m) Split Pair Detection: 3 ft (1 m) to 1,000 ft (305 m) Length Measurement: 0 to 1,500 ft (457 m), ± (5%+1ft (30 cm)) Distance to fault: 0 to 656 ft (200 m) ± (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) Extendable platform for IEEE 802.3bt Type 4 100W higher- power PoE
Active Ethernet	Network and test support by interface: Copper RJ-45 interface – 100/1,000/2,500/5,000/10,000 Mb/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 2.4/5 Ghz WiFi and Bluetooth
Maximum Voltages	Maximum voltage that can be applied to any 2 connector pins without causing damage to the tester: RJ-45: 60 VDC or 50 VAC
Save Test Results	Stores virtually unlimited cable or network tests with user defined names per project
Tone Generation	Tone Frequencies: 730 Hz and 1440 Hz
Languages	English, German, French, Spanish
Battery	Li-Ion, 7.2 VDC, 3.1A-hr (typical) Battery Life at 10Gb: 8 hrs minimum, 24 hrs stand-by
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	245 x 177 x 73 mm (main unit) 130 x 177 x 55 mm (Active Remote)
Weight with Battery	2.6lbs (1.2 kg) main unit; 1.3lbs (0.6 kg) active remote

Options

Description	Order Number
NetXpert XG 10G	226554 (plus 2 license upgrades from 1G)
NetXpert XG 2.5G & 5G	226554 (plus 1 license upgrade from 1G)
NetXpert XG 1G	226554

Note: for copper, quantity of 1 includes remote. For fiber, minimum quantity of 2 is required since local will be used at both ends of the fiber cable

Delivery with each of the above

1 x NetXpert XG Main Unit
1 x Active Remote
2 x Power supply

2 x Test cable
1 x Hard case
1 x Micro-USB adapter

License upgrade 1 step 226555

itnetworks.softing.com/us

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