



and Tone Wand



# NetXpert XG2 and Tone Wand

## Looking to prove Ethernet cable performance for your application as it's installed in your environment?

What if you could prove cable performance as your cable is installed in your harsh environment by sending bits down your cable and looking for errors?

That's exactly what NetXpert XG2 does with BERT (bit error rate testing), SNR (signal to noise ratio), and delay skew.

What causes bit errors on a cable? Interference, distortion, and noise.

What causes interference? EMI (electromagnetic interference) and NEXT near end cross talk.

What causes distortion? Cables that are too long.

What causes noise? Bad cable properties, bad installation, and EMI.

If your cable passes NetXpert XG2 BERT, then you have zero bit errors on your cable, and it will perform for your application as it was tested, as it was installed, in your environment.

No complicate test jargon, not complicated test setup. It's fast, simple, and powerful for proving your cable will perform, as it was installed, in your harsh environment.

### FEATURES

- BERT, SNR, delay skew, wiremap, length of cable all in one test
- Prove cable performance with BERT for 100Mb, 1Gb, 5Gb, or 10Gbps speeds and get pass/fail per IEEE 802.3 standards
- Also includes a suite of active network tests over copper, fiber (with fiber extension kit), Wi-Fi
- Tests your SFPs (with fiber extension kit)
- Test PoE power and switch PoE settings
- Use the active remote to check copper wiring for shorts, opens, miswires with feedback at the remote
- Includes tone generator
- Ask, and you'll get a tone wand with NetXpert XG2 purchase to find breaks or locate cables in a bundle
- Includes professional pdf reporting



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## OPTIONAL ACCESSORIES

### Upgrades

- 226555 Upgrade license for NetXpert XG2 for one level at a time

### Extension kits

- 226738 NetXpert XG2 – Fiber Extension Kit – turns an XG2 – 10G into an XG2-PLUS
- 226538 Remote Kit – single NetXpert XG2 Active Remote for copper qualification

### Warranty extension

- 229888 NetXpert XG2 series warranty extension from 12 months to 36 months

### Fiber optic accessories

- 400986 SFP+ Module, Singlemode, 10GBASE-LR/LW
- 400985 SFP+ Module, Multimode, 10GBASE-SR/SW
- 400982 SFP Module, Singlemode, 1000BASE-LX
- 400984 SFP Module, Multimode, 1000BASE-SX

### General accessories

- 226581 RJ45 Remote Identifier Set (24 pcs, #1 – #24)
- 226745 2 x RJ45 exchange socket XG2 for main and remote device
- 226528 Link/Cable Identifier Set (8 pcs, #1 – #8)
- 226539 Fiber optic microscope for inspection of connector end faces

### Industrial accessories

- 226630 E2E measuring cable RJ45 to Harting preLink® system (1 pc)
- 228154 RJ45 interchangeable plug for Harting preLink® system, IP20 CAT 6A (1 pc)
- 228155 M12 D-coded plug for Harting preLink® system CAT 5 (1 pc)
- 228156 M12 X-coded plug for Harting preLink® system CAT 6A (1 pc)
- 228157 M12 D-coded socket for Harting preLink® system CAT 5 (1 pc)
- 228158 M12 X-coded socket for Harting preLink® system CAT 6A (1 pc)
- 228159 Interchangeable V14 push-pull RJ45 plug for Harting preLink® system (1 pc)
- 228160 Interchangeable Han® 3 A RJ45 plug for Harting preLink® system (1 pc)
- 228293 IX socket for Harting preLink® system CAT 6A (1 pc), incl. housing
- 228161 Opener for Harting preLink® system (5 pcs)
- 228162 RJ45 CAT 6 pre link jack HIFF format for Harting preLink® system, (1 pc)
- 228171 Soft bag for NetXpert accessories
- 226747 NetXpert Industrial Adapter PRO-Kit – contains the complete industrial accessories for RJ45, M12D and M12X

## SPECIFICATIONS – ALL MODELS

Copper Interface	1 x Cat 6A RJ45, interchangeable
Fiber Interface	2 x SFP slot 1–10Gb/s (please order SFP modules separately)
Length Measurement Technology	Time-Domain Reflectometry (TDR) and capacitance
Cable Testing and ID	Up to 1000ft (305m) – Split Pair Detection: 3ft (1m) to 1000ft (305m) – Length Measurement: 0 to 1500ft (457m), ± (5% + 1ft (30cm)) – Distance to fault: 0 to 656ft (200m) ± (5% + 3ft (1m)) – Supports 8 wiremap remotes (RJ 45) and 24 RJ45 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 4, 90W)
Maximum Voltages	Maximum voltage that can be applied to any 2 connector pins without causing damage to the tester: RJ45: 60VDC or 50VAC
Storage Capacity	Stores an unlimited number of cable tests per projects with user defined names
Tone Generation	Tone Frequencies: 730Hz and 1440Hz
Languages	English, German, French, Spanish, Italian
Battery	Li-Ion, 7.2 VDC, 6.2A-hr / up to 4hrs (typical)
External Power Supply	12VDC
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, 1024 x 600 resolution (WSVGA)
Size	245 x 177 x 73mm (Main unit) 130 x 177 x 55mm (Active Remote)
Weight with Battery	1.2kg (main unit) 0.6kg (Active Remote)



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