



## netAlly LinkRunner 10G Ethernet Tester User Guide

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### LinkRunner® 10G Advanced Ethernet Tester

Cost-Effective, Line-Rate 10Gig Ethernet Testing.



**LinkRunner 10G**

## Advanced Ethernet Tester.

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## Cost-Effective, Line-Rate 10Gig Ethernet Testing

- Quickly test, verify, and troubleshoot 1Gig, Multi-Gig, and 10Gig Ethernet (copper, fiber) including line-rate performance testing and packet capture.
- NEW! LANBERT™ Media Qualification app tests the capability of premise cabling and media components for carrying Multi-Gig and 10Gig Ethernet.
- Layer 1-7 AutoTest enables any technician to find network problems.
- Monitor networks for intermittent issues, every minute for up to 24 hours.



## Overview

Introducing the new LinkRunner 10G, the most cost-effective solution for 10 Gig network testing. LinkRunner 10G simplifies testing and configuration of copper and fiber Ethernet networks, streamlining workflows by combining essential functions of installation and triage in a single, ruggedized unit.

This next-generation Android-based tester delivers complete network validation and troubleshooting, from the media (copper/fiber) to the application (layers 1 – 7), accelerating deployments, speeding problem identification, and improving the efficiency and effectiveness of network installers and operations teams.

## Key Features

- Install, test, verify, and troubleshoot technology upgrades, Multi-Gig (NBASE-T) and 10G networks with advanced Android™ based troubleshooting apps and purpose-built test hardware
- Physical layer testing includes cable (TDR) testing, toning, wiretapping, LAMBERT frame transmission testing, and cable SNR (Signal-to-Noise Ratio) for multi-gig links.
- Compatibility with standards-compliant SFPs enables test and validation of any wired media (copper or fiber) for a variety of use models.
- Validate up to 90W 802.3bt PSE with TruePower™ loaded Power over Ethernet (PoE) test
- Serves as a peer to the EtherScope nXG for line-rate performance testing to verify network capacity, performance and QoS, as well as service provider SLAs between sites
- Programmable periodic AutoTest monitors for intermittent issues with email notifications through the Link-Live cloud service
- Separate management port enables secure “out of band” remote control so centralized experts can efficiently assist technicians in the field
- Optional USB Wi-Fi/Bluetooth adapter for connectivity and remote control.
- Seamlessly consolidate and manage field test data, automate reporting, and integrate with network management systems via complimentary Link-Live Cloud Service.

## AllyCare-Enabled Features

Customers with AllyCare Premium Support service get access to these additional advanced capabilities:

**Discovery** – Instantly see what is on the network and where it is connected, by the switch, slot, and port number. Quickly investigate and locate “suspect” devices and identify problems associated with device misconfigurations:

**Switch Management:** Interfaces, utilization, errors, discards, HDX, RTSP, recent reboots using SNMP monitoring

**Device Discovery:** Discover all devices then search the inventory using powerful filters and sorts. Add name/authorization to any device.

**Discovery Difference:** Analysis in Link-Live shows new or missing devices.

**Topology Analysis:** Path analysis shows the L2 switch/L3 router path to any connected device.

**Network Mapping:** Upload discovery data to LinkLive and instantly map your wired and Wi-Fi networks; integrated views of network topology can be easily customized and exported to Visio.

**Cloud-Based Remote Control** – A simple and secure remote-control feature allows you to manage and control distributed LinkRunner 10G units for troubleshooting and collaboration without leaving your desk!



## Models and Accessories

<b>Model Number/Name</b>	<b>Description</b>
<b>LR10G-100</b>	LinkRunner 10G Advanced Ethernet Tester Includes: (1) LR-10G mainframe with Li-ION battery, G3-PWR ADAPTER, SFP+MR-10G850, Inline RJ-45 coupler, WireView wire mapper #1, Quick Start Guide, and small soft case.
<b>LR10G-100-KIT</b>	LinkRunner 10G Professional Kit Includes: (1) LR-10G mainframe with Li-ION battery, G3-PWR ADAPTER, G3-HOLSTER, SF-P+MR-10G850, SFP+MR-10G1310, Cat 6 RJ-45 inline coupler, WireView wire mappers #1-#6, IntelliTone TM 200 Probe, Quick Start Guide, and medium soft case.
<b>LR10G-100-1YS</b>	1-year AllyCare Support for LR-10G (Use for either LR10G-100 or LR10G-100-KIT)
<b>LR10G-100-3YS</b>	3-year AllyCare Support for LR-10G (Use for either LR10G-100 or LR10G-100-KIT)
<b>G3-PWRADAPTER</b>	AC Charger replacement/spare for EXG-200 mainframe with country power cords
<b>EXG-LR10G-KIT</b>	Etherscope nXG 10G Performance Kit Includes: (1) EtherScope nXG and (1) LinkRunner 10G Use LR10G-100-1YS and EXG-200-1YS for 1 year of AllyCare support Use LR10G-100-3YS and EXG-200-3YS for 3 years of AllyCare support
<b>EXG-LR10G- OLSTER</b>	Holster for LinkRunner 10G, EtherScope XGn, and EtherScope nXG CE
<b>SFP+MR-10G850</b>	SFP+ Optical Transceiver Module, SX/SR, 1G/10G, 850nm, Multimode
<b>SFP+MR-10G1310</b>	SFP+ Optical Transceiver Module, LX/LR, 1G/10G, 1310nm, Singlemode
<b>US-WIFI-BT-USB</b>	Edimax n150 Wi-Fi & Bluetooth USB Adapter for US and Canada
<b>EU-WIFI-BT-USB</b>	Edimax n150 Wi-Fi & Bluetooth USB Adapter for Europe

## Specifications

<b>General</b>	
<b>Dimensions</b>	4.05 in x 7.67 in x 2.16 in (10.3 cm x 19.5 cm x 5.5 cm)
<b>Weight</b>	1.68 oz (0.77kg)
<b>Battery</b>	Rechargeable lithium-ion battery pack (7.2 V, 6.4 A, 46 Wh)
<b>Display</b>	5.0 in color LCD with capacitive touch screen (720 x 1280 pixels)
<b>Host Interfaces</b>	RJ-45 and SFP Analysis ports RJ-45 Cable Test and Management Port USB Type-A Port and USB Type-C On-the-Go Port
<b>SD card slot</b>	Supports Micro SD card storage – up to 64GB supported
<b>Memory</b>	Approximately 8 GB available for storing test results and user applications, 1 GB packet capture buffer
<b>Charging</b>	USB Type-C 45-W adapter: 100-240 Vac, 50-60 Hz; DC Output Power 15 V (3 A) RJ-45: 802.3at PoE (25W) or higher
<b>Media Access</b>	Copper: 10M/100M/1G/2.5G/5G/10G Fiber SFP Adapters: 1G/10GBASE-X
<b>Supported IEEE Standards</b>	Wired: 802.3/ab/ae/an/bz/i/u/z PoE: 802.3af/at/bt, Class 0-8 and UPOE
<b>Cable Test</b>	Pair lengths opens, shorts, split pairs, crossed, straight through, and WireView ID Multi-Gig link Signal-to-Noise (SNR) measurement (5 dB threshold)

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[netally.com/products/linkrunner10g](https://netally.com/products/linkrunner10g)



simplicity • visibility • collaboration

## Documents / Resources

	<p><a href="#">netAlly LinkRunner 10G Ethernet Tester</a> [pdf] User Guide LinkRunner 10G Ethernet Tester</p>
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## References

- [LinkRunner® 10G - Multi-Gig Ethernet Tester - NetAlly](#)

