

# EtherScope™ nXG

## Portable Network Expert

### Key Features

- Test, verify, and troubleshoot technology upgrades, NBASE-T, 10G, and Wi-Fi 5/6 networks with advanced Android-based troubleshooting apps and purpose-built test hardware
- Verify up to 10G Ethernet link performance for critical servers, uplinks and key end devices, and validate Wi-Fi network performance
- Empowers technicians who may not have access to network management systems or other engineer-level tools, to assess and document complex network deployments with multiple VLANs and Wi-Fi SSIDs
- Seamlessly consolidate and manage field test data, and integrate with network management systems via complimentary Link-Live Cloud Service

### Overview

Deploying and maintaining Wi-Fi and wired network infrastructure without the right tools can be daunting... and costly. The EtherScope nXG Portable Network Expert is a multi-technology, all-in-one handheld network that enables engineers and technicians to get more done faster, from deployment to maintenance and documentation of their ever-changing Wi-Fi and Ethernet access networks. With its simple operation, yet in-depth visibility, and the ability to remotely access and control EtherScope nXG, engineers can now fully enable and collaborate with “local hands” of field technicians at remote sites to expedite problem solving.



### Capabilities

#### All-in-One Platform

- An Android-based handheld network tester that verifies, discovers and troubleshoots Wi-Fi and Ethernet network infrastructures
- Native 4x4 Wi-Fi that supports:
  - 802.11a/b/g/n/ac (wave 2) Wi-Fi network connectivity
  - Wi-Fi 6 network visibility
  - Analysis of SSIDs, BSSIDs, channel, client devices, and interference sources
- Ethernet port supports:
  - 10/100/1000Mbps to 2.5/5/10G
  - Verifies loaded power from 90W PoE switch
- Built-in Bluetooth v5/BLE and USB interfaces to discover and configure nearby device

#### Auto-Discovery Tool

- Discover network devices across multiple VLANs and Wi-Fi SSIDs through four Wi-Fi and Ethernet interfaces upon power up
- Powerful filter and sort function with automatic problem detection identifies issues such as:
  - Duplicate IPs
  - Congested switch ports
  - Oversubscribed Wi-Fi channels/SSIDs
  - Security issues, such as unknown switches, access points with open authentication and unencrypted APs

- Path Analysis shows the switch/router path to any connected device

#### 10G Line Rate Performance Test

- Simultaneously generate and measure up to four streams of IP-based traffic through the Ethernet test port to:
  - Load the network with up to full 10G line-rate traffic
  - Test for packet loss, delay, and jitter
- Supports popular iPerf network throughput testing for Wi-Fi and Wired networks

#### Verify Complex Networks

- Out-of-the-box AutoTest profiles for Wi-Fi and wired networks that can be customized for your network
- Execute multiple AutoTest profiles that shorten test time to verify multiple VLANs and Wi-Fi SSIDs
- Define and assign groups of targets to AutoTest profiles to verify performance using ping, TCP Connect, Web, or FTP
- Packet capture from Wi-Fi and Ethernet to PCAP file

#### Centralized Management

- Complimentary Link-Live Cloud Service stores test result and site data upload for automated reporting and documentation
- Available API enables seamless data integration between Link-Live and trouble-ticket or network management systems

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### Models & Accessories

Model Number/Name	Description
<b>EXG-200</b>	Includes: (1) EXG-200 mainframe with Li-ION battery, G3-PWRADAPTER, SFP+MR-10G850, Inline RJ-45 coupler, WireView wire mapper #1, <i>Quick Start Guide</i> , and small softcase.
<b>EXG-200-1YS</b>	1 Year AllyCare Support for EXG-200
<b>EXG-200-3YS</b>	3 Year AllyCare Support for EXG-200
<b>EXG-200-KIT</b>	Includes: (1) EXG-200 mainframe with Li-ION battery, G3-PWRADAPTER, G3-HOLSTER, SF-P+MR-10G850, SFP+MR-10G1310, RJ-45 inline coupler, (1) Test Accessory, WireView wire mappers #1-#6, External Directional Antenna, IntelliTone™ 200 Probe, <i>Quick Start Guide</i> , and medium softcase.
<b>EXG-200-KIT-1YS</b>	1 Year AllyCare Support for EXG-200-KIT
<b>EXG-200-KIT-3YS</b>	3 Year AllyCare Support for EXG-200-KIT
<b>EXG-200-KIT-2PK</b>	Includes: (2) EXG-200-KIT
<b>EXG-200-LRG2-KIT</b>	Includes: (1) EXG-200-KIT and (1) LinkRunner G2 (LR-G2)
<b>EXT-ANT</b>	External Directional Antenna
<b>G3-PWRADAPTER</b>	AC Charger replacement/spare for EXG-200 mainframe with country power cords.
<b>G3-HOLSTER</b>	Holster for G3 EXG-200 mainframe
<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

### Specifications (For full specifications, please refer to the product data sheet)

General	
<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 lbs. (0.77 kg)
<b>Battery</b>	Rechargeable lithium-ion battery pack (7.2 V, 6.4 A, 46 Wh)
<b>Battery Life</b>	Typical operating life is 3-4 hours; Typical charge time is 3 hours
<b>Display</b>	5.0-inch color LCD with capacitive touchscreen (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 SMA Connector (for External Directional Antenna)
<b>SD Card Port</b>	Supports Micro SD card storage - up to 64GB supported
<b>Memory</b>	Approximately 8 GB available for storing test results and user applications
<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 Wi-Fi: 802.11a/b/g/n/ac 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

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