

TECHNICAL DATA

Fluke Networks LinkIQ™ Industrial Ethernet Cable+Wi-Fi+Network Tester



Key features

[Check out the LinkIQ Virtual Demo](#)

- Performance testing of Industrial Ethernet cabling
- Switch IP address, name, port / VLAN number, data rates + ping
- Detect and test PoE power under load to Class 8
- Wi-Fi analysis to Wi-Fi 6E: networks, channels, and access points
- Manage results and print reports from LinkWare™ PC

Product overview: Fluke Networks LinkIQ™ Industrial Ethernet Cable+Wi-Fi+Network Tester

The LinkIQ™ Industrial Ethernet Cable+Wi-Fi+Network Tester is the testing solution to verify cable performance up to 10 Gb/s and solve network connectivity problems. The LinkIQ tester validates cable performance using frequency-based measurements and a wire map of the cable under test. It also performs ping tests to verify connectivity and nearest switch diagnostics to identify key network issues and validate switch configuration - eliminating the need for another device. The LinkIQ Duo model adds Wi-Fi analysis to Wi-Fi 6E (where approved), including networks, channels, and access points plus warning of common configuration issues. The IE models allow identification of miswired and split

pairs on RJ45, M12X, M12D, and M8D terminated cables supporting EtherNet/IP, PROFINET, EtherCAT and other Industrial Ethernet protocols. Additional features include Analog and Digital Toning, Port Blink, Remote Office Locators, and the ability to manage results via LinkWare™ PC.

Validates Cable Performance

LinkIQ ensures that tested links meet performance requirements. It can measure lengths up to 1,000 feet (305 m) and provide distance to faults such as opens, shorts, and unterminated cable. The included remote ID provides a complete wire map of the cable pairs to identify miswired and split pairs.

Detailed Ping Tests Speed Troubleshooting

LinkIQ performs IP ping tests that verify connectivity and provides nearest switch diagnostics, including advertised data rate (up to 10GBASE-T), half/full duplex identification, switch name and IP address, port number, VLAN information, and load test up to Class 8 (90 W). With LinkIQ, you can quickly identify key network issues and validate switch configuration without having to use another device.

In-Depth Testing for PoE

To simplify PoE installation and troubleshooting, LinkIQ displays the pairs where power is provided, showing the different power levels and pairs for dual-signature implementations. LinkIQ performs load testing up to Class 8 (90 W) by placing a load on the connection to ensure that the advertised power is actually being delivered across the cabling infrastructure.

Testing to Wi-Fi 6E (LinkIQ Duo)

The LinkIQ Duo tester makes it easy to understand the Wi-Fi environment by running a complete suite of tests and displaying the results the way you want to view them: by networks, channels, or access points. Choosing a specific item (such as an access point listed under a specific network) changes seamlessly to that view. The LinkIQ Duo tester also flags common configuration errors including:

- use of an illegal channel for the detected region
- use of a non-recommended channel
- access points that overlap with an adjacent access point unless one is low power
- weak security settings

Color Touchscreen

LinkIQ has a large, gesture-based touchscreen that displays a great deal of information and provides clear, easy-to-use controls such as sliders and a full keyboard. Its simplified TEST function displays results according to what's plugged into the unit's single RJ-45 connector. A single USB-C port provides connectivity to your PC for software updates, reporting, and charging.

Integrated with LinkWare PC

LinkIQ provides complete documentation via LinkWare PC. Up to 1,000 results with descriptive names can be stored in the tester and recalled. Test names and numbers automatically increment when saved ("Annex B-1," "Annex B-2," "Annex B-3," etc.), saving valuable time when you test cables in sequence.

Additional Features

- Multiple-language interface support: English, German, French, Japanese, Thai, Spanish, Traditional Chinese,

Simplified Chinese, Korean, Russian, Italian, Portuguese

- Cable Toning (compatible with the Fluke Networks IntelliTone™ Probe or Pro3000™)
- Blink Port light on switch
- Compatible with MicroScanner™ PoE Remote Identifiers
- Color touchscreen
- Rechargeable Li-Ion battery via standard USB-C port
- Easy upgrades through USB-C or LinkWare PC

Fluke Premium Care Eligible

When you invest in your Fluke test tools, you want your money to go as far as possible. [Fluke Premium Care](#) is a paid offering that provides coverage above and beyond the original product warranty, so you don't need to worry about unexpected downtime caused by damaged test equipment, accessories, or tools in need of calibration or repair.

[Learn more](#)

Specifications: Fluke Networks LinkIQ™ Industrial Ethernet Cable+Wi-Fi+Network Tester

Ordering information



LIQ-100-IE

LIQ-100-IE, LINKIQ TESTER W/ INDUSTRIAL ETHERNET ADAPTER KIT

Includes:

- LIQ-100 with Multi-Connector Adapter
- Magnetic strap
- RJ45 Remote-ID #1
- Quick Reference Guide
- USB-C to USB-A cable
- Charging cable
- Cat 6A patch cord
- RJ45 male to RJ45 female patch cord
- RJ45/M12X patch cord
- RJ45/M12D patch cord
- RJ45/M8D patch cord
- RJ45/11 Modular Adapter
- Hanging strap with Remote ID holder
- Duffel bag

Optional accessories

Fiber Media Converters for LinkIQ™ Testers

Fluke Networks Replacement Remote ID #1 / Wiremapper for LinkIQ™

Description

Fiber Media Converters for 1 Gb/s or 10 Gb/s Connection to LinkIQ Testers

Fluke Networks Replacement Remote ID #1 / Wiremapper for LinkIQ™



Preventive maintenance simplified. Rework eliminated.

Save time and improve the reliability of your maintenance data by wirelessly syncing measurements using the Fluke Connect™ system.

- Eliminate data-entry errors by saving measurements directly from the tool and associating them with the work order, report or asset record.
- Maximize uptime and make confident maintenance decisions with data you can trust and trace.
- Access baseline, historical and current measurements by asset.
- Move away from clipboards, notebooks and multiple spreadsheets with a wireless one-step measurement transfer.
- Share your measurement data using ShareLive™ video calls and emails.

Find out more at flukeconnect.com



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Smart phone wireless service and data plan not included with purchase. Fluke Connect is not available in all countries.