

CableIQ™ Qualification Tester

CIQ-100

Copper qualification tester troubleshoots and qualifies Ethernet network cabling speed (10/100/1000/VoIP).

- Works on live networks to provide Ethernet switch detection and device configuration
- Measure network capacity (10 Meg, 100 Meg, 1 Gig) to determine support for VoIP, data and video
- Advanced troubleshooting diagnostics; insertion loss, cross talk, noise issues
- Core troubleshooting features; length, distance to fault, graphical wire mapping, opens, shorts, power over Ethernet (POE) detection
- Tests all copper cabling media: twisted-pair, coax, and audio
- Locate and trace cables with digital toning technology. Requires IntelliTone 200 Digital Probe (included with CIQ-KIT)

Overview

The network tech's vision into cabling bandwidth

CableIQ qualification tester is the first cabling bandwidth tester for network technicians. This Ethernet network cable tester gives even the most novice tech the vision to see what speeds existing cabling can support, quickly isolate cabling from network problems, and discover what is at the far end of any cable. That means network techs can close trouble tickets faster, reduce on-call time, and save money by better utilizing their existing infrastructure.

Reduce escalated problems by as much as 30%

CableIQ qualification tester's powerful network troubleshooting capability and intuitive interface enable your frontline technicians to identify and troubleshoot a wider range of problems within your network infrastructure. Is the port active? Are the duplex settings matched? Is it a network problem or a Ethernet cable problem? Can the Ethernet cable support the required network bandwidth? CableIQ network cable tester is the only Ethernet cable tester that can answer all these questions before trouble tickets are escalated to the next level reducing problem escalation by up to 30%.

Features

Bandwidth Qualification

When you deploy Voice over IP (VoIP) or Gigabit Ethernet, you want to make sure that the existing cabling will support the bandwidth requirements of your new equipment. Your cabling was certified, but moves adds and changes have rendered many links incapable of running desired speeds. CableIQ quickly reveals whether a link, including patch cords, is qualified for voice, 10/100BASE-T, VoIP, or Gig. Knowing your cabling's bandwidth capabilities before upgrading can prevent countless hours of future downtime and labor hours wasted on unnecessary troubleshooting.

Cable Troubleshooting

Plug into any cable, patch panel, or wall jack and see both the cable details (length/wiremap) and far-end device details (speed/duplex settings) at once. A series of both cable and network test functions help you isolate connectivity problems. For instance, if Discover mode shows duplex settings are matched but the problem persists, run Autotest to see if the cabling can support the required bandwidth. If a link is not qualified, CableIQ provides detailed information on the nature and location of cabling performance faults such as crosstalk or large impedance changes. With CableIQ your techs can close trouble tickets faster by cutting cable troubleshooting time in half.

Infrastructure Discovery

Free up 10% or more of your switch ports

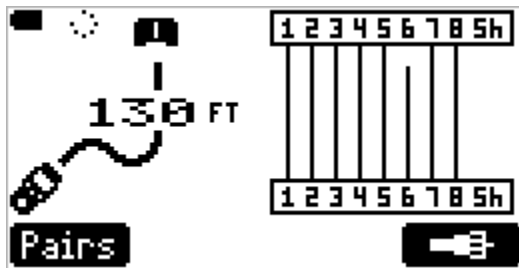
CableIQ's Discover mode shows you exactly what's at the far end of any cable. At the switch, test each cable one at a time. You can quickly see whether the cable is open at the far end, or is connected to a PC. Or use CableIQ's hub blink feature from the workstation to flash the corresponding switch port LED. You may be surprised at how many unused ports you can free up and redeploy using CableIQ.

Determine where installed cables are routed, all from one location.

Attach remote ID's in different locations, then perform multiple cable tests from the distribution center or wiring closet. CableIQ provides the wiremap, pair lengths, distance to fault, and remote ID number of each tested cabling link.

Intelligent Wiremap

Intelligent wiremap tests for length, shorts, split pairs, or opens and displays with an intuitive graphical interface where a fault is located.



CableIQ's Intelligent Wiremap shows pin 6 open at far end of tested cable (130 ft/34 meters).

Intelli Tone Technology

CableIQ supports IntelliTone digital toning by:

- Finding cables easier and tracing with better accuracy than any other tool on the market
- Toning and tracing safely on a live network
- Providing two digital tones and four analog tones
- Featuring IntelliTone cable mapping; after tracing, use the IntelliTone Pro Probe 200 to verify wiremap

Easy-to-use

Empower frontline techs with an easy-to-use-tool

Intuitive user interface and graphical display guides user with little or no training required.

- Rotary knob makes learning easy and operation simple you always know what test mode is selected
- Portable, lightweight, rugged ergonomic design for easy field use
- Four AA batteries - Long lasting battery life for several weeks of testing
- Remote adapter doubles as a protective endcap.

Customer quote: "I handed CableIQ to our level III techs, they turned the unit on and began testing within two minutes of reviewing the various available selections."

--Telecommunications Analyst

What is Qualification?

Qualification is a new category of testers designed to meet the emerging needs of network technicians who need to upgrade to higher network speeds as well as troubleshoot connectivity problems. Qualification testers, like Fluke Networks new CableIQ Qualification Tester, determines if an existing cabling link can or can not support certain network speeds and technologies. This differs from certification testers, like the DTX CableAnalyzer, which guarantees cabling installations comply with TIA/ISO performance standards and basic verification testers, like the MicroScanner Pro, which tests if the cable is connected correctly.

Qualification testers allow network technicians to perform a series of troubleshooting steps to better isolate cabling from network problems. For example, a first step in troubleshooting a network connectivity problem might be to check the speed and duplex settings of connected devices. If the tester shows the settings are matched, but the problem persists, a qualification test can be performed. Performing a qualification test will allow the technician to identify whether insufficient cabling bandwidth is the cause of the problem. Knowing your cabling's bandwidth capability allows you to close trouble tickets faster and helps ensure seamless upgrades to higher network speeds.

Choosing the right tool for the job

When to use a qualification tester: If you are a network technician, and need to see whether the existing cabling will support your 1000BASE-T network, a qualification tool is the right choice. If you need to troubleshoot connectivity problems and isolate cabling problems from network problems, then qualification is the perfect solution. If you have an existing network and are doing small adds, moves, and changes, or are setting up a temporary network and just need to qualify it for a specific network technology, a qualification tool is a good option.

When to use a certification tester: If you're a commercial installer or network owner who needs to prove that all cabling has been installed correctly, and meets TIA or ISO link specifications, you must certify it. If you are in a troubleshooting environment, and need to show unequivocally that the link under test is failing category 5e or 6 performance requirements according to TIA or ISO standards, your only choice is a certification tool. If you have a mixture of fiber and copper cabling, and often need to test both, cable certification tools do that best.

To receive the support and financial security of a manufacturer's warranty, certification to TIA/ISO standards is your only option. Anything else makes the installer liable for the performance of the installation which can be quite costly. For example, a large 1000 link installation could represent a \$100,000 (USD) project, which can be a hefty liability if manufacturer warranty is not obtained.

When to use a verification tool: Verification tools are typically used by any technician who pulls and terminates cable or performs basic moves, adds and changes. These tools are used as a first line of defense in finding connection and wire-pairing faults.

Specifications

CableIQ Specifications

Cable types supported	UTP, STP, FTP, SSTP, RG6, RG59, audio and security
Qualification Autotests	1000BASE-T, 100BASE-TX, 10BASE-T, VoIP, 1394b S100, TELCO, Wiremap only, Coax
Supported tests	Wiremap, length, cable signal performance, digital toner, analog toner, Ethernet port detection and identification, analog telephone detection, blink port light, continuity, speaker test, cable fault finding, video signal detection.
Wiremap	Can detect single wire faults and supports MultiMap mode with up to seven remote office identifiers. Draws proportional wire length to breaks. Detects split pairs.
Find fault	Measures crosstalk and impedance and compares against appropriate limits based on qualification test selected. Detects location of large point sources as well as distributed sources in the cabling if they are sufficient to disqualify the application
Results storage	Up to 250 qualification test results
Power	Battery type: 4 AA (NEDA 15A, IEC LR6) alkaline batteries
Battery life	20 hours of typical use, without backlight
Other battery types supported	4AA photo lithium, NIHM, NICAD
Dimensions and weight	7in x 3.5in x 1.75in (17.8cm x 8.9cm x 4.5cm) 1.2 lb (0.55 kg)