

AutoCross Media Converters

Connect Ethernet or Fast Ethernet segments to fiber segments without using crossover cables.

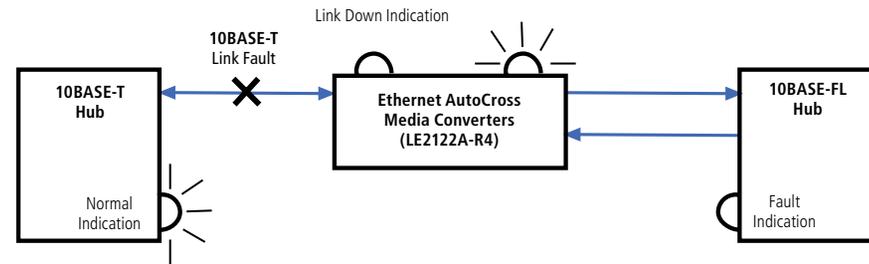


FEATURES

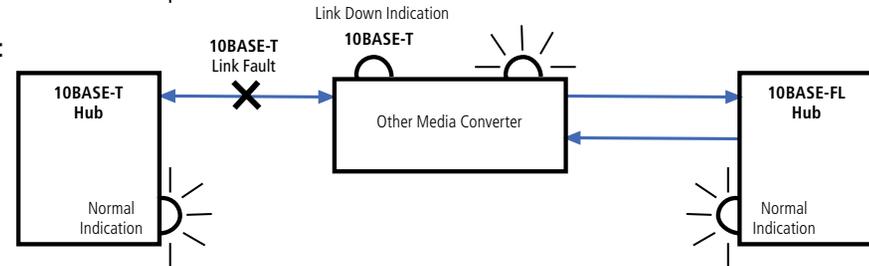
- » Two LEDs per port show status of UTP and fiber links.
- » Work with common networking devices.
- » Operate full or half-duplex to boost speed and distance.
- » Ideal for preventing cross-cabling errors in mixed-media network.
- » Autosensing, universal power supplies.
- » LinkALERT monitors 100% of physical uplink and downlink failures to pinpoint transmission faults.

Perform end-to-end diagnostics with the converter's unique LinkALERT feature.

With LinkALERT:



Without LinkALERT:



OVERVIEW

With the [AutoCross Media Converters](#) for Ethernet and Fast Ethernet, you no longer have to deal with mismatched transmit and receive cable pairs.

The converters contain an automatic switch in the 10BASE-T and 100BASE-TX ports. This switch senses the type of circuit connected to the port and automatically configures the port to match the circuit. It conveniently converts twisted-pair media interfaces to fiber, or vice versa—in less than a second.

For convenience and flexibility, [AutoCross Media Converters](#) come with a universal, autosensing power supply.

Ethernet

Use the 10BASE-T to 10BASE-FL [AutoCross Media Converter](#) when two devices need to communicate from over full duplex (transmit and receive) or half-duplex twisted-pair cable to fiber.

The 10BASE-T converters are available in both single-mode and multimode versions. These converters can be used up to 100 meters (328 ft.) on the UTP link, up to 2 kilometers (1.2 mi.) on a multimode fiber link, and up to 20 kilometers (12.4 mi.) on a single-mode fiber link.

The 10BASE-T side is autosensing to either MDI or MDI-X. Either a straight or crossed cable can be used to connect either a switch or NIC. Note that the converters are not compatible with devices that autosense speed (for example, a 10-/100-Mbps switch); they work only with standard 10-Mbps devices.

Fast Ethernet

If your 100-Mbps networks need conversions from fiber to UTP and back again, then choose a 100BASE-TX to 100BASE-FX [AutoCross Media Converter](#).

These single-port converters will help you maximize your current investment in twisted-pair hardware while integrating fiberoptic cabling to support high-speed technology. And they're available for either single-mode or multimode applications.

All Fast Ethernet converters support full and half-duplex operation. They can be used up to 100 meters (328 ft.) on the 100BASE-TX link, up to 2 kilometers (1.2 mi.) on a multimode fiber link, and up to 20 kilometers (12.4 mi.) on a single-mode fiber link.

The 100BASE-TX side is autosensing to either MDI or MDI-X. Either a straight or crossed cable can be used to connect either a switch or NIC.

Easy fiber diagnostics

[AutoCross Media Converters](#) also feature LinkALERT™, which monitors 100% of physical uplink and downlink failures and alerts the network if transmission fails. Without LinkALERT, a failed link may appear normal to network management. LinkALERT saves you the hassle of manual troubleshooting.

Why Buy From Black Box? Exceptional Value. Exceptional Tech Support. Period.

Recognize any of these situations?

- You wait more than 30 minutes to get through to a vendor's tech support.
- The so-called "tech" can't help you or gives you the wrong answer.
- You don't have a purchase order number and the tech refuses to help you.
- It's 9 p.m. and you need help, but your vendor's tech support line is closed.

According to a survey by *Data Communications* magazine, 90% of network managers surveyed say that getting the technical support they need is extremely important when choosing a vendor. But even though network managers pay anywhere from 10 to 20% of their overall purchase price for a basic service and support contract, the technical support and service they receive falls far short of their expectations—and certainly isn't worth what they paid.

At Black Box, we guarantee the best value and the best support. You can even consult our Technical Support Experts before you buy if you need help selecting just the right component for your application. Don't waste time and money—call Black Box today.



LH2001A-ST-R3

TECH SPECS

CE Approval — Yes

Interface — LE2122A-R4 models: 10BASE-T/10BASE-FL;
LH2001A-R3 models: 100BASE-TX/100BASE-FX;

Connectors —

LE2122A-R4, LH2001A-ST-R3: (1) RJ-45, (1) pair ST®;

LE2122A-SM-R4, LH2001A-SC-R3, LH2001A-SCSM-R3: (1) RJ-45,
(1) pair SC

Indicators — LEDs: (1) Power; (1) Link Status and (1) Activity
(per each twisted-pair and fiber port)

Temperature — Operating: 32 to 122°F (0 to 50°C);
Storage: 5 to 149°F (-15 to +65°C)

Humidity — 5 to 95% noncondensing

Power — 110–240-VAC, 50–60-Hz, external autosensing power supply

Size — 1"H x 3"W x 4"D (2.5 x 7.6 x 10.2 cm)

Weight — 0.4 lb. (0.2 kg)

Item

Code

Ethernet AutoCross Media Converters

1-Port 10BASE-T to 10BASE-FL

Multimode, ST

LE2122A-R4

Single-Mode, SC

LE2122A-SM-R4

Fast Ethernet AutoCross Media Converters

1-Port 100BASE-TX to 100BASE-FX

Multimode, ST

LH2001A-ST-R3

Multimode, SC

LH2001A-SC-R3

Single-Mode, SC

LH2001A-SCSM-R3

You may also need...

Category 5 Solid-Conductor Cable, 4-Pair,
Straight-Pinned, PVC, 10-ft. (3-m)

EYN737MS-0010

Duplex Fiber Optic Cable, PVC,

ST-ST, Custom Lengths

EFN062-CC