

## Modular Media Converters



**Absolute flexibility for your  
network connections!**

## FEATURES

- Support the greatest mix of 10-, 100-, and 1000-Mbps segments for UTP and single- or multimode fiber.
- Choose from 1-, 4-, 8-, and 12-slot modular chassis.
- LinkLoss™ provides instant notification of fiber segment link problems.
- FiberAlert™ minimizes the problems associated with the loss of one strand of fiber cable.
- Fiber multimode to single-mode protocol-independent modules support ATM and Gigabit Ethernet applications.
- All copper ports feature autocross so you never need a crossover cable.

## OVERVIEW

Convert 10-, 100-, or 1000-Mbps segments between twisted-pair and single- or multimode fiber in half- or full-duplex mode. You can even convert single-mode fiber to multimode fiber! Choose from 5 different chassis and 28 converter modules for exactly the right configuration.

### Chassis

Choose a 1-, 4-, 8-, or 12-slot chassis, each with a universal 120-/240-VAC internal power supply. The 1- and 4-slot chassis are standalone models. The 8-slot chassis is rackmountable and stands 1U high.

The 12-slot chassis is rackmountable and 1U high, and it holds up to 45 Modular Media Converter modules. Plus it has a slot for the Redundant Power Supply Module. Choose from AC- and DC-powered units.

### Conversion Modules

You can install any combination of modules in any chassis, giving you complete flexibility.

Use the 10BASE-T/BNC module to integrate legacy ThinNet into today's UTP Ethernet network.

Choose from fiber modules that support 10-, 100-, or 1000-Mbps Ethernet on the copper side and multimode or single-mode on the fiber side. Use these modules to add distance—up to 40 kilometers—to your network. Autosensing 10BASE-T/100BASE-TX modules connect to either 10BASE-T or 100BASE-TX networks and automatically sense and adapt to network speed.

Single-strand fiber modules send and receive over one single-mode fiber strand, so you save on infrastructure costs.

All modules with copper ports feature an internal two-position switch on the twisted-pair port, which eliminates the need for a crossover cable. Just move the switch to the appropriate setting on the module before installing the card.

For the fiber models, the LinkLoss feature enables you to identify problems on the fiber segment from the twisted-pair side. You can also identify problems on the twisted-pair segment from the fiber side.

The FiberAlert feature minimizes the problems associated with the loss of one strand of fiber cable. If a strand goes out, the local site administrator is notified of a fault and can quickly determine where it is located.

The 1300-nm Single-Mode to 1300-nm Multimode Modules are packaged in twos and work in pairs. They require two chassis slots, so they only work with the 4-, 8-, or 12-slot models. You can choose from versions that support distances of up to 40 kilometers. One module in the package features a single-mode receive port and a multimode transmit port; the other has a multimode receive port and a single-mode transmit port.

## TECH SPECS

### Chassis:

CE Approval — Yes

Power — LE7401A-R2, LE7404A, LE7408A, LE7412A: 120/240 VAC, 50/60 Hz;

LE7412A-DC: -48 VDC

Size — LE7401A-R2: 1.5"H x 4.7"W x 4.4"D (3.8 x 11.9 x 11.2 cm);

LE7404A: 1.8"H x 8.6"W x 5"D (4.6 x 21.8 x 12.7 cm);

LE7408A: 1.8"H x 17.5"W x 5"D (4.6 x 44.5 x 12.7 cm);

LE7412A, LE7412A-DC: 1.75"H x 17.5"W x 8.76"D (4.4 x 44.5 x 22.25 cm)

Weight — LE7401A-R2: 2 lb. (0.9 kg);

LE7404A: 3.5 lb. (1.6 kg);

LE7408A: 6.3 lb. (2.8 kg);

LE7412A, LE7412A-DC: 11 lb. (5 kg)

### Modules:

CE Approval — Yes

Connectors — 10BASE-T/100BASE-TX ports: RJ-45;

ThinNet ports: BNC;

Fiber ports: ST® or SC single- or multimode, depending on the module

## 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.



Item	Code
<b>Modular Media Converters</b>	
Chassis	
120-/240-VAC Power Supply	
1-Slot	<b>LE7401A-R2</b>
4-Slot	<b>LE7404A</b>
8-Slot	<b>LE7408A</b>
12-Slot (1U High)	<b>LE7412A</b>
48-VDC Power Supply	
12-Slot (1U High)	<b>LE7412A-DC</b>
10-Mbps Conversion Modules	
10BASE-T/BNC	
100 m	<b>LE740-TPBNC</b>
10BASE-T/Multimode, ST	
4 km	<b>LE740-TPSTM-R2</b>
10BASE-T/Multimode, SC	
4 km	<b>LE740-TPSTM-SC-R2</b>
40 km	<b>LE740-TPSTS20-R2</b>
100-Mbps Conversion Modules	
100BASE-TX/Multimode, ST	
300 m	<b>LH742-TPSTM-SX</b>
2 km	<b>LH740-TPSTM-R3</b>
100BASE-TX/Multimode, SC	
300 m	<b>LH742-TPSCM-SX</b>
2 km	<b>LH740-TPSCM-R3</b>
100BASE-TX/Single-Mode Plus, ST	
40 km	<b>LH740-TPSTS20-R3</b>
100BASE-TX/Single-Mode Plus, SC	
40 km	<b>LH740-TPSCS20-R3</b>
10/100-Mbps Copper to 100-Mbps Duplex Fiber Modules	
10/100BASE-TX/Multimode, 850-nm, ST	
300 m	<b>LH741-TPSTSXM</b>
10/100BASE-TX/Multimode, 850-nm, SC	
300 m	<b>LH741-TPSCSXM</b>
10/100BASE-TX/Multimode, 1300-nm, ST	
2 km	<b>LH741-TPSTM</b>
10/100BASE-TX/Multimode, 1300-nm, SC	
2 km	<b>LH741-TPSCM</b>
10BASE-T/100BASE-TX/Single-Mode, 1310-nm, SC	
40 km	<b>LH741-TPSM</b>

Item	Code
10/100-Mbps Copper to 100-Mbps Single-Strand Fiber Modules	
Single-Mode, SC, 20 km <i>(Order One of Each.)</i>	
1310-nm TX/1550-nm RX	<b>LH741-TPSCS13/15</b>
1550-nm TX/1310-nm RX	<b>LH741-TPSCS15/13</b>
Single-Mode, SC, 40 km <i>(Order One of Each.)</i>	
1310-nm TX/1550-nm RX	<b>LH741-TPSCS13/154</b>
1550-nm TX/1310-nm RX	<b>LH741-TPSCS15/134</b>
Gigabit Copper to Duplex Fiber Modules	
Multimode 850-nm, 1000BASE-SX, SC	
300 m	<b>LG741-TXSXSC</b>
Single-Mode 1310-nm, 1000BASE-LX, SC	
10 km	<b>LG741-TXLXSC</b>
40 km	<b>LG741-TXLXSC40</b>
70 km	<b>LG741-TXLXSC70</b>
Gigabit Copper to 1000BASE-LX Single-Strand Fiber Modules	
Single-Mode, SC, 10 km <i>(Order One of Each.)</i>	
1310-nm TX/1550-nm RX	<b>LG741-TXLXSC-13</b>
1550-nm TX/1310-nm RX	<b>LG741-TXLXSC-15</b>
Single-Mode, SC, 40 km <i>(Order One of Each.)</i>	
1310-nm TX/1550-nm RX	<b>LG741-TXLXSC-1340</b>
1550-nm TX/1310-nm RX	<b>LG741-TXLXSC-1540</b>
Redundant Power Supply Module	
for 1U 12-Slot Chassis	
40 Watts, 120/240-VAC	<b>PS7412A</b>