

Hardened Media Converter Switches, 10-Mbps

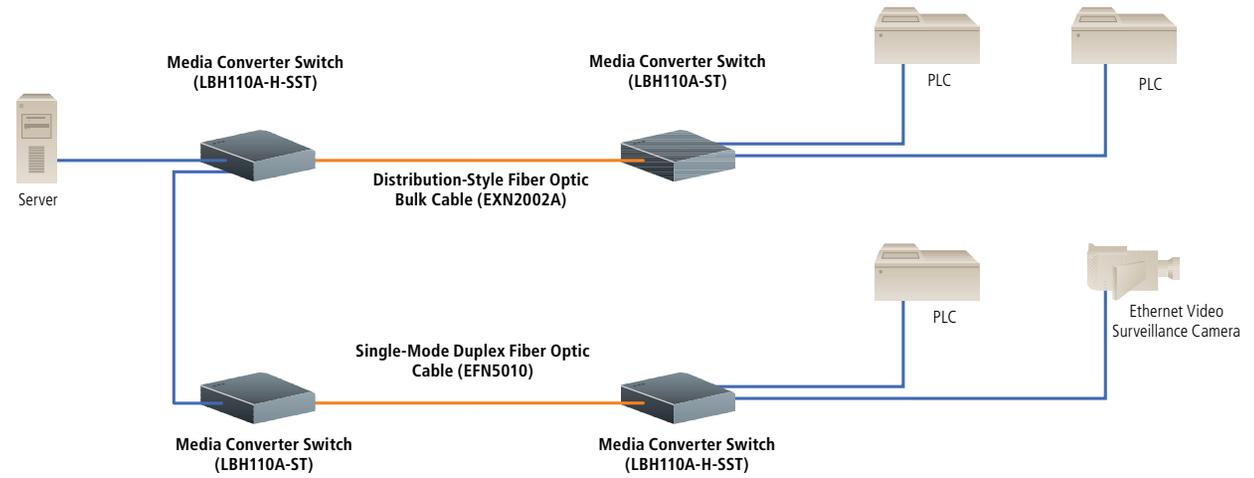
Media converter switches for industrial environments.



FEATURES

- » Function as both a media converter and a switch.
- » Suitable for dusty or dirty environments with a temperature range between -13 and +140°F (-25 to +60°C).
- » Provide one 10-Mbps fiber port and two 10-/100-Mbps UTP switch ports.
- » RJ-45 ports support autonegotiation, so you can easily attach any 10- or 100-Mbps device on the copper side.

Switch PLCs and an Ethernet surveillance camera on the shop floor to a 100-/1000-Mbps server over multimode and single-mode fiber cable.



OVERVIEW

Media Converter Switches are the versatile way to extend your network. They're easy to use—literally plug-and-play—and offer many choices of fiber types, power types, and mounting options. These 10-Mbps fiber versions of our popular 100-Mbps **Media Converter Switches** enable you to link to older 10BASE-FX infrastructures.

It's a media converter and a switch!

Media Converter Switches do more than just adapt from one cable type to another. They're true Ethernet switches and behave like switches within your Ethernet network. This means you can connect them together indefinitely without worrying about interpeater links. Each **Media Converter Switch** features non-blocking switching architecture with a 2K MAC address table. The 128K buffer memory makes it easy to interconnect 10- and 100-Mbps devices.

Tough enough for the factory floor.

Hardened Media Converter Switches are for dusty or dirty environments with temperatures that range between -13 and +140°F (-25 to +60°C). They use the metal case as a heat sink so no internal airflow is needed for cooling. The case is sealed to resist environmental contaminants such as dust, dirt, moisture, smoke, and insects. They're an ideal choice for demanding industrial applications such as factory floors.

Media Converter Switches are also available in standard versions for office or wiring closet environments and extreme versions for outdoor environments. Because all three types work together seamlessly, you can use inexpensive Standard **Media Converter**

Switches in the protection of the wiring closet and choose the more robust Hardened or Extreme **Media Converter Switches** for harsh locations at your network's edge.

Distance isn't a problem.

Because they're switches as well as media converters, **Media Converter Switches** provide more options in network topology, overcoming the distance limitations inherent with simple media converters—to add extra distance, just daisychain another **Media Converter Switch**. If you need more ports at your remote location, just add a Convenient Switch.

Multimode models support up to 2 kilometers (1.2 miles) between **Media Converter Switches**. For longer distances, choose single-mode models for up to 20 kilometers (12.4 miles).

The features you're looking for.

Media Converter Switches are simple to set up and use—just plug and go!

Both copper ports are autosensing for speed and duplex, adjusting to the connected device automatically. Plus, the UTP ports feature auto-MDI/MDI-X, eliminating the need for crossover cables.

Media Converter Switches each have two full sets of LED indicators: one set on the front for viewing convenience when the Media Converter is DIN rail or wallmounted, and one set mounted in the end next to the media ports for easy viewing when units are in a rackmount tray.



LBH100A-H-ST

AC or DC power

Hardened Media Converter Switches have the power options to support harsh environments, too. Models with AC power supplies support 100–240-VAC power. The power supplies with recessed IEC power connectors work with any IEC standard power cord, making them adaptable to most international locations.

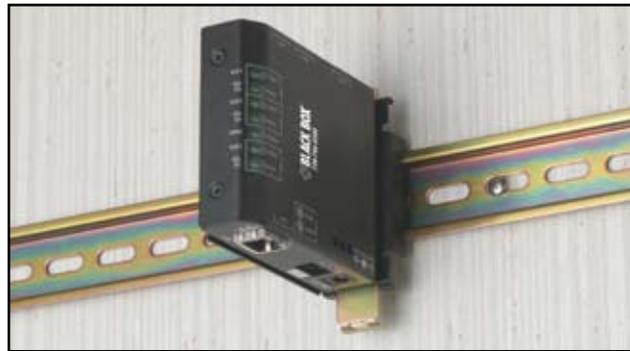
DC-powered units have internal screw terminals for connecting DC power in addition to an AC power jack. Because these models have dual power connections, you can use them simultaneously with both your DC power supply and an AC power adapter (sold separately) to provide redundant power input.

Mounting options galore.

Media Converter Switches fit in where you need them. They come with neat, removable rubber feet so you can use them as standalone units. Or you can easily panelmount them with the included brackets and screws.

For use with DIN rails, order the optional DIN Rail Mounting Bracket. This handy bracket features springmounting, enabling you to easily pop your **Media Converter Switches** on and off the DIN rail without using a screw-driver or tightening set screws. DIN-rail-ready **Media Converter Switches** are also available.

For rackmounting in a central location, choose the Rackmount Tray or the Powered Rackmount Tray. The powered tray provides power for up to eight units.



The DIN Rail Mounting Bracket (DIN-RAIL MC2) features a spring latch that enables you to quickly add or remove a module without using a screwdriver. Like the Media Converter Switches, the bracket is all metal, tough, and durable.

TECH SPECS

Distance (Maximum) — Multimode models: 2 km (1.2 mi.)
MAC Addresses — 2K
Standards — IEEE 802.3, IEEE 802.3u, IEEE 802.1p/q
Enclosure — Steel
Connectors — (2) RJ-45, (1) pair of ST®
Indicators — (1) Power LED; Per port LEDs: 10/100, full/half-duplex, Link/Act
Power — AC models:
 100–240-VAC, 47–63-Hz external power supply;
 12-VDC models: Internal terminal block for 12-VDC power plus jack for AC power supply (not included);
 24-VDC models: Internal terminal block for 24-VDC power plus jack for AC power supply (not included);
 -48-VDC models: Internal terminal block for -48-VDC power plus jack for AC power supply (not included)
Temperature Tolerance —
 Storage: -40 to +185°F (-40 to +85°C);
 Long-term operating: -13 to +140°F (-25 to +60°C);
 Short-term operating: -40 to +185°F (-40 to +85°C);
 Cold start to -4°F (-20°C)
Humidity — 5 to 95%, noncondensing
Altitude — -200 to 13,000 ft. (-60.9 to 3962.4 m)
Size — 3.5"H x 3"W x 1"D (8.9 x 7.6 x 2.5 cm)
Weight — Media Converter Switches 0.3 lb. (0.1 kg);
 Power Supplies: 0.4 lb. (0.2 kg)

Item

Code

Hardened Media Converter Switches, 10-/100-Mbps Copper to 10-Mbps Multimode Fiber	
100–240-VAC, ST	LBH110A-H-ST
100–240-VAC with IEC, ST	LBH110AE-H-ST
12-VDC, ST	LBH110A-H-ST-12
24-VDC, ST	LBH110A-H-ST-24
48-VDC, ST	LBH110A-H-ST-48
Hardened Media Converter Switches, 10-/100-Mbps Copper to 10-Mbps Single-Mode Fiber	
100–240-VAC, ST	LBH110A-H-SST
AC Power Supply for Hardened Media Converter Switches, 100–240-VAC, 47–63-Hz	LBH100A-H-PS
AC Power Supply for Hardened Media Converter Switches, 100–240-VAC, 47–63-Hz with IEC Connector	LBH100AE-H-PS
DIN Rail Mounting Bracket	DIN-RAIL MC2
Rackmount Tray	LE1505-RACK
Powered Rackmount Tray	LH1505P-RACK