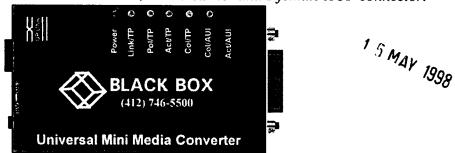
Black Box® Universal Mini Media Converter LE1510A

Twisted Pair to AUI Ethernet Media Converter, with 1 RJ-45 and 1 female AUI connector.



Product Description: The Black Box LE1510A Universal Mini Media Converter provides a connection between a twisted pair segment and any female Attachment Unit Interface (AUI) with slide latch. An external power supply provides power for the converter and for any attached mini-transceivers. Therefore, any Ethernet coax transceiver (via AUI drop cable) or mini-transceiver with a standard male AUI interface can be connected to the LE1510A through the AUI connector—providing a connection from a twisted pair segment to a variety of other Ethernet media types. Media converters cost less than full Ethernet repeaters and can be used whenever media distance limitations will not be exceeded in the new cabling structure.

The Black Box LE1510A is part of the family of Black Box Media Converters. For 10Mb, these include the models LE1500A-UTP (twisted pair to mm. fiber), LE1501A (twisted pair to single-mode fiber), LE1500A-BNC (ThinNet to mm. Fiber, and LE1502A (twisted pair to ThinNet). Models for 100Mb include the LH1500-ST and LH1500-SC (twisted pair to mm. fiber-ST and fiber-SC) as well as the LH1501A fiber single-mode SC version.

Media Conversion Combinations: The Black Box LE1510A Universal Mini Media Converters typically are used with 10Mb twisted pair (RJ-45) and ThickNet (AUI) cables. It may also combine with various other coax transceivers and mini-transceivers to provide media flexibility. These "Media Conversion Combinations" include twisted pair to fiber (single and multi-mode) and ThinNet to twisted pair, and are illustrated in the table near the end of this document.

Performance: Data Rate: 10 Mbits / second

Additional Features: Each LE1510A converter features a full set of LEDs that conveys essential diagnostic and status information on each port. There are 4 LEDs for TP (Link, Polarity, Activity, Collision), 2 for AUI (Activity, Collision), and 1 common (PWR). An Up-link switch on the TP port allows the LE1510A to be used in any application without the need for a cross-over cable. The case is rugged metal.

Network Standards: Ethernet V1.0 / V2.0 IEEE 802.3; 10BASE-T, 10BASE5

Operating Environment:

Ambient Temperature: 32-120°F; (0-50°C); Storage: -20°C to 60°C;

Ambient Relative Humidity: 10%-95% (non-condensing)

Packaging

Enclosure: High strength metal, designed for wall-mounting or closet shelf.

Dimensions: [2.7x 1.65 x 0.75] in. [6.9x 4.2 x 1.9] cm. Weight: 4 oz (115 g); power supply: 10 oz (2285 g)

Power Supply

Power Input Voltage: 95-125 vac at 60 Hz for LE1510A Model, 200-250 vac at 50 Hz for LE1510AE Model which has universal IEC power cable connection. The power transformer units are rated 12VDC and 500ma to 1A. Power Consumption: 6 watts max.

Agency Approvais

UL Listed (UL 1950), cUL, CE; Emissions meet FCC Part 15, Class A

Warranty Three years Made in USA

Black Box LE1510A (continued)

Media Distance Limitations

Media converters do not extend media distances (and do not add to the hop count) as repeaters do. The cable segment length on each side of a media converter is measured as a percentage of the maximum allowable standard media distance for the given media type, and the percentages when added together must not exceed 100%. See Black Box's "Media Converters Installation and User Guide" or call Technical Support for cable distance limitations and distance calculation examples.

Media Conversion Options

An AUI drop-cable may be connected to the AUI port. Alternatively, connecting a transceiver to the AUI port on the Black Box LE1510A will greatly expand the range of media converter options available. For example, combining a Black Box Fiberoptic Transceiver with the LE1510A will provide a conversion between twisted pair and multi-mode fiber. Similarly, combining a LE1510A with a Black Box BNC Transceiver will provide a conversion between twisted pair and ThinNet. The Chart below describes the range of combinations.

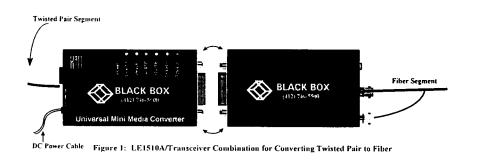
PRODUCT CONFIGURATIONS

Product Combination

Black Box LE1510A + BNC Transceiver

Black Box LE1510A + Fiberoptic Transceiver (multi-mode)

Black Box LE1510A + Fiberoptic Transceiver (single-mode)



ORDERING INFORMATION:

Model	Description
Black Box LE1510A	Media Converter, twisted pair to AUI with external 95-125 vac at 60 Hz power supply
Black Box LEI510AE	Same as LE1510A, but with external 200-250 vac at 50 Hz power supply rev. 1/98

Media Conversion

10BASE-T-to-10BASE2

10BASE-T-to-10BASE-FL (multi-mode)

10BASE-T-to-single-mode fiber

ŒĐ	Description
Power	Indicates unit is receiving power
Link/TP	Steady ON when the connection is made at the twisted pair end
Pol/TP	Indicates that a receive data wire-pair
	signal inversion has been detected on the twisted pair part
Act/TP	Indicates activity has been detected on the twisted pair part
Col/TP	Indicates unit is simultaneously transmitting and receiving on the twisted pair part
Col/AUI	Indicates unit is simultaneously transmitting and receiving on the AUI part
Act/AUI	Indicates activity has been detected on the AUI port

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