

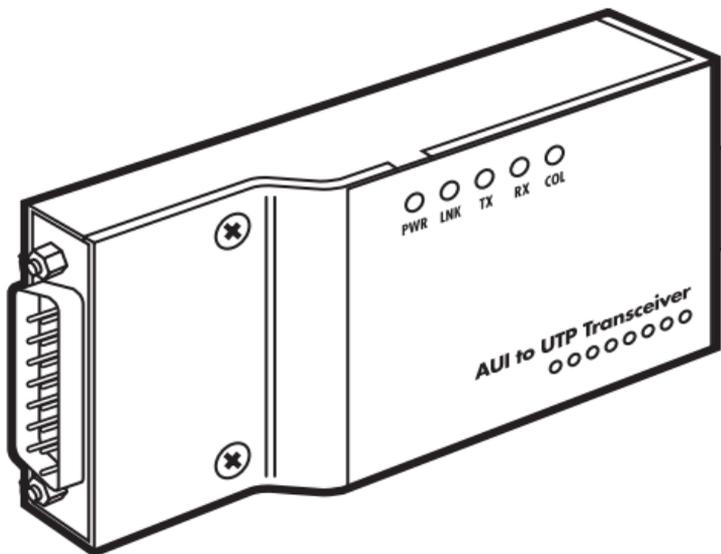


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AUI to UTP Transceiver



CUSTOMER SUPPORT INFORMATION

Order **toll-free** in the U.S.: Call **877-877-BBOX** (outside U.S. call **724-746-5500**)
FREE technical support 24 hours a day, 7 days a week: Call **724-746-5500** or fax **724-746-0746**
Mailing address: **Black Box Corporation**, 1000 Park Drive, Lawrence, PA 15055-1018
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FEDERAL COMMUNICATIONS COMMISSION AND INDUSTRY CANADA RADIO FREQUENCY INTERFERENCE STATEMENTS

This equipment generates, uses, and can radiate radio-frequency energy, and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication. It has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart B of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This digital apparatus does not exceed the Class A limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of Industry Canada.

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**FEDERAL COMMUNICATIONS COMMISSION
AND
INDUSTRY CANADA
RADIO FREQUENCY INTERFERENCE STATEMENTS
(continued)**

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de classe A prescrites dans le Règlement sur le brouillage radioélectrique publié par Industrie Canada.

TRADEMARKS USED IN THIS MANUAL

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Any trademarks mentioned in this manual are acknowledged to be the property of the trademark owners.

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1. Specifications

Standards: IEEE 802.3

User Controls: (1) SQE switch

Connectors: (1) DB15 AUI M, (1) RJ-45

Indicators: (5) LEDs: (1) Power, (1) Link,
(1) Transmit, (1) Receive, (1) Collision

Temperature Tolerance:

Operating: 32 to 122°F (0 to 50°C);

Storage: -40 to +212°F (-40 to +100°C)

Relative Humidity:

Operating: 8 to 80%, noncondensing;

Storage: 5 to 98%, noncondensing

Power: From the AUI interface

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Size: 0.8"H x 1.6"W x 3.2"D
(2 x 4.1 x 8.2 cm)

Weight: 0.2 lb. (<0.1 kg)

2. Introduction

The AUI to UTP Transceiver connects an AUI interface of an Ethernet device (such as a LAN card installed in a PC, or a bridge, router, hub, or repeater) to the twisted-pair cabling of a 10BASE-T network. The transceiver complies with the IEEE 802.3 10BASE-T specification.

The transceiver has two connectors and a switch. The DB15 AUI connector attaches directly to the AUI port on a network device or to a standard AUI cable. The 8-pin RJ-45 connector attaches to UTP cable. (The transceiver automatically detects and corrects reverse polarity on the UTP receive pair of wires.) A switch enables or disables SQE test.

3. Installation

3.1 Setting the SQE Switch

When the transceiver is attached to a LAN card, bridge, or router, the SQE switch (located on the bottom of the transceiver) should be ON.

When the transceiver is attached to a hub or repeater, the SQE switch should be OFF.

NOTE

The default switch setting for the SQE switch is OFF.

3.2 Installing the Transceiver

1. Turn the power to the network device off.
2. Attach the RJ-45 connector of a twisted-pair cable to the AUI to UTP Transceiver. Connect the other end of the cable to a 10BASE-T network.
3. Attach the AUI to UTP Transceiver to the network device's AUI port or to an AUI cable. If the port has a slide latch with the DB15 AUI connector, slide it until the mounting posts on the transceiver lock into place.
4. Turn the power to the network device on.

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3.3 LED Functions

LED	State	Description
Power (PWR)	On	The transceiver is receiving power from the AUI interface.
	Off	The transceiver is not receiving power from the AUI interface.
Link (LNK)	On	A good link has been established with a functioning 10BASE-T device over the twisted-pair cable.
	Off	No link has been established with a functioning 10BASE-T device over the twisted-pair cable.
Transmit (TX)	Blinking	A data packet is transmitted.
	On	A large amount of data is being transmitted.
	Off	No data packet is transmitted.

LED	State	Description
Receive (RX)	Blinking	A data packet is received.
	On	A large amount of data is being received.
	Off	No data packet is received.
Collision (COL)	On	A collision is detected on the twisted-pair port.
	Off	No collision is detected.

4. Troubleshooting

4.1 Calling Black Box

If you determine that your AUI to UTP Transceiver is malfunctioning, do not attempt to alter or repair the unit. It contains no user-serviceable parts. Contact Black Box at 724-746-5500.

Before you do, make a record of the history of the problem. We will be able to provide more efficient and accurate assistance if you have a complete description, including:

- the nature and duration of the problem.
- when the problem occurs.

- the components involved in the problem.
- any particular application that, when used, appears to create the problem or make it worse.

4.2 Shipping and Packaging

If you need to transport or ship your AUI to UTP Transceiver:

- Package it carefully. We recommend that you use the original container.
- If you are shipping the transceiver for repair, make sure you include everything that came in the original package. Before you ship, contact Black Box to get a Return Authorization (RA) number.