



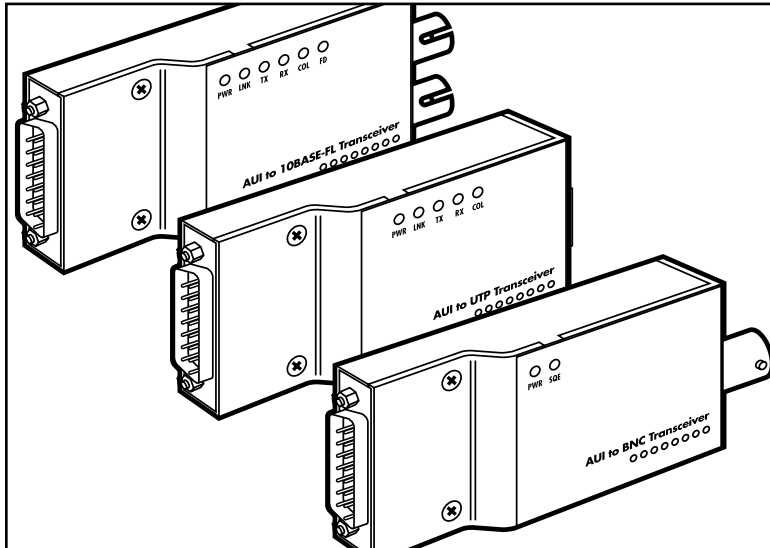
# BLACK BOX<sup>®</sup>

## NETWORK SERVICES

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## AUI TO BNC, UTP, OR 10BASE-FL TRANSCEIVERS



*Link your Ethernet devices to ThinNet, UTP, or fiberoptic networks with these handy transceivers.*

### Key Features

- ▶ **Install the transceiver either directly on an Ethernet device via the AUI port or using an AUI cable.**
- ▶ **Models available for ThinNet, UTP, or fiberoptic connections.**
- ▶ **SQE (Signal Quality Error) switch enables or disables SQE (heartbeat) test.**
- ▶ **Link integrity test on the fiber model checks fiber cables.**
- ▶ **Compact design.**

Need a way to connect Ethernet devices to 10BASE2, 10BASE-T, or 10BASE-FL cabling? Choose our inexpensive AUI transceivers.

The AUI to BNC Transceiver (LE1601A) lets you connect an Ethernet device (such as a LAN card installed in a PC, or a bridge, router, hub, or repeater) to Thin Ethernet coaxial cable. It extends coaxial cable segments up to 606.8 ft. (185 m) *without* a repeater. This transceiver complies with the 10BASE2 specification for Thin Ethernet networks.

If you want to attach your Ethernet device to 10BASE-T unshielded twisted-pair (UTP) cabling, order the AUI to UTP Transceiver (LE1602A). The

10BASE-T segments can be up to 328 ft. (100 m) long. The LE1602A meets the standards for 10BASE-T Ethernet.

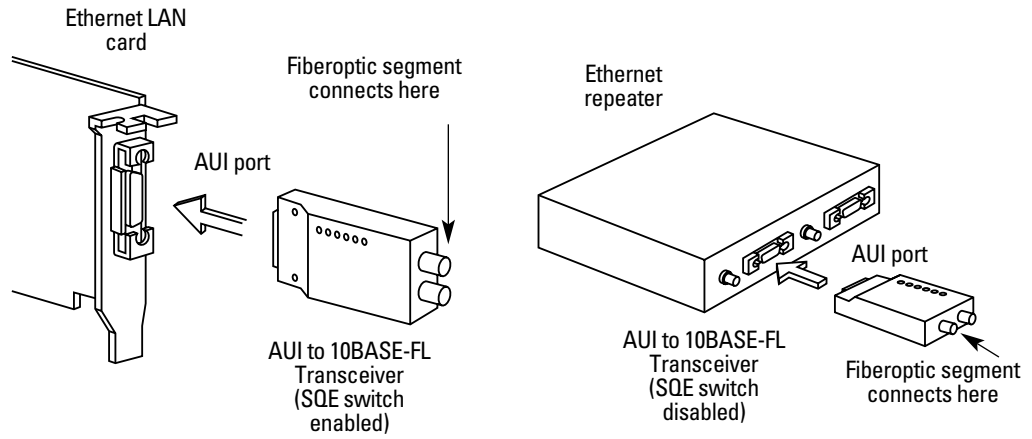
Or connect your Ethernet device to a multimode 10BASE-FL fiberoptic network or device using the AUI to 10BASE-FL Transceiver (LE1603A). The 10BASE-FL segments can be up to 1.2 miles (2 km) long. The LE1603A fits the requirements of the 10BASE-FL Ethernet standard.

On the AUI side of the transceivers, you can use a standard AUI cable (50 ft., or 15.2 m, long) to connect to the Ethernet device, or you can directly mount the transceiver to the DTE.

All three models feature an SQE (Signal Quality Error) switch that enables or disables Signal Quality Error (heartbeat). SQE must be enabled when connecting the transceiver to a LAN card, bridge, or router. This test must be disabled when connecting to a hub or repeater. The BNC and UTP models have a 2-position slide switch that sets SQE. On the fiber model, SQE is set via a 4-position DIP switch.

LEDs tell you network status at a glance. The AUI to 10BASE-FL Transceiver also features a link integrity test that automatically checks fiberoptic cables.

## Attaching an AUI to 10BASE-FL Transceiver to an Ethernet card or repeater.



## Specifications

### Standards:

LE1601A: IEEE 802.3 10BASE2;  
 LE1602A: IEEE 802.3 10BASE-T;  
 LE1603A: IEEE 802.3 10BASE-FL

### Maximum Cable Segment

**Distance:** All models: AUI port:  
 Up to 50 ft. (15.2 m);  
 LE1601A: Coaxial: Up to 606.8 ft.  
 (185 m);  
 LE1602A: UTP: Up to 328 ft.  
 (100 m);  
 LE1603A: Fiber: Up to 1.2 mi.  
 (2 km)

**Speed:** 10 Mbps

### User Controls:

LE1601A, LE1602A:  
 (1) SQE slide switch;  
 LE1603A: (1) 4-position DIP  
 switch (SQE, Link Alert, Link,  
 and Full Duplex)

### Connectors:

LE1601A: (1) DB15 AUI M,  
 (1) BNC F;  
 LE1602A: (1) DB15 AUI M,  
 (1) RJ-45;  
 LE1603A: 1) DB15 AUI M, (2) ST®

### Indicators:

LE1601A: (2) LEDs:  
 (1) Power, (1) SQE;  
 LE1602A: (5) LEDs: (1) Power,  
 (1) Link, (1) Transmit,  
 (1) Receive, (1) Collision;  
 LE1603A: (6) LEDs: (1) Power,  
 (1) Link, (1) Transmit,  
 (1) Receive, (1) Collision,  
 (1) Full Duplex

### 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

**Size:** LE1601A: 0.8"H x 1.6"W x 3.8"D  
 (2 x 4.1 x 9.7 cm);  
 LE1602A: 0.8"H x 1.6"W x 3.2"D  
 (2 x 4.1 x 8.2 cm);  
 LE1603A: 0.8"H x 1.6"W x 3.4"D  
 (2 x 4.1 x 8.6 cm)

**Weight:** 0.2 lb. (<0.1 kg)

## What the Package Includes

- (1) AUI to BNC, UTP, or 10BASE-FL Transceiver
- (1) BNC "T" connector (included with LE1601A only)
- (1) Users' manual

## Ordering Information

ITEM	CODE
AUI to BNC Transceiver .....	LE1601A
AUI to UTP Transceiver .....	LE1602A
AUI to 10BASE-FL Transceiver .....	LE1603A
<i>You might also need...</i>	
Ethernet Transceiver Cable (Office Environment)	
Stranded Copper Connectors, Double Shielded.....	LCN215
ThinNet Cable (NEC® CL2 & CL2P), PVC.....	LCN300
GigaBase® 350 CAT5 Patch Cable with Snagless Boots, 350-Mhz, 24 AWG, RJ-45, 4-Pair, 568-B, PVC, Straight-Pinned.....	EVNSL81
Ceramic Terminated Multimode Fiber Optic Cable, ST-SC, Duplex, Riser.....	EFN4010