BLACK BOX®
NETWORK SERVICES

Token Ring
Fibre Optic Transceiver
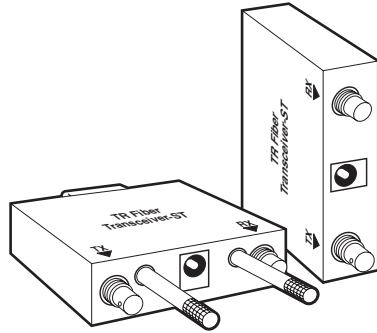
Extend the distance of a single lobe over fibre optic cable—up to 2 km

Key Features

▶ *Converts Token Ring signal from copper to F/O cable and vice versa.*

▶ *Supports a distance of up to 2 km (1¼ miles) for multimode—20 km (12½ miles) for single-mode.*

▶ *Easy installation; rackmountable.*

▶ *Fully automatic operation.*

▶ *Choose Type 1 or Type 3 Token Ring, Single-Mode or Multimode Fibre.*

These long-distance lobe and ring transceivers can be used two ways. They can enable remote terminals to communicate with a multi-station access unit (MSAU) via a fibreoptic link. Or they can extend the main ring distance between two MSAUs over fibre cable.

Technically Speaking

Here's how the Transceivers work. The first unit encodes the phantom drive signal as an optical pulse and transmits it to the second Transceiver where it's put back into its original electrical form.

The Transceivers extend maximum lobe or ring transmissions to 2 km (1¼ miles) for multimode fibre—and up to 20 km(12½ miles) for single-mode fibre.

The DB9 versions (LT038A and LT038A-SM) can be plugged directly into a workstation, with an EHM057 DB9 fibre transceiver cable. Connect the RJ-45 versions (LT038A-UTP and LT038A-SMUTP) via a patch cable.

Each Transceiver complies with the IEEE 802.5J Token Ring Standard—and features fully automatic operation, including speed (4/16 Mbps) and autoconfiguration for either the MSAU or PC side (when used as a lobe extender) or the RI or RO side (when used as a main ring transceiver).

To help keep data safe, the Transceivers compensate for signal attenuation by reconstructing and reshaping the data signal. To maintain ring integrity, the Transceiver will deactivate its lobe should a fibre optic cable fault occur.

LEDs indicate Insert, F/O OK, and Power.

NOTE: Must be used in pairs. The power supply (included) must be used on the MSAU side. It's optional on the PC side.

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Ordering Information

This information will help you place your order quickly.

Specifications

Speed — 16 or 4 Mbps

Indicators — LEDs: Insert, F/O OK, PWR

Connectors — LT038A: (1) DB9 male, (2) ST®; LT038A-SM: (1) DB9 male, (2) ST single-mode fibre; LT038A-UTP: (1) RJ-45, (2) ST single-mode fibre; LT038A-SMUTP: (1) RJ-45, (2) SMA

Power — +5 V between Pins 3 and 8 of the DB9 connector from the NIC, or external 9-V, 500-mA power supply

Size — 2 x 6.1 x 8.9 cm (0.8"H x 2.4"W x 3.5"D)

Weight — 0.1 kg (0.3 lb.)

PRODUCT NAME	ORDER CODE
Token Ring F/O Transceiver	
Type 1 Token Ring	
Multimode Fibre	LT038AE
Single-mode Fibre	LT038AE-SM
Type 3 Token Ring	
Multimode Fibre	LT038AE-UTP
Single-mode Fibre	LT038AE-SMUTP
Token Ring F/O Transceiver Cable	
2.4-m (8-ft.)	EHM057-0008