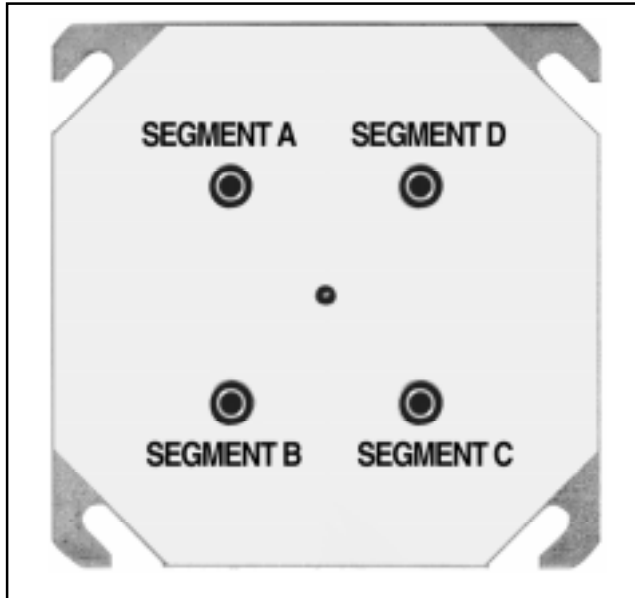


## Q7740A,B FTT Repeater



### SPECIFICATION DATA



### FEATURES

- Free Topology Transceiver (FTT) network technology is insensitive to polarity, simplifying installation.
- Uses Echelon® LonTalk® communications protocol.
- High-speed 78 kilobit communications network.
- Physical isolation between segments.
- Supports installation of larger networks.
- LED power indicator.
- Access to E-Bus network jack for each network segment.
- On-board termination circuits that are switchable from no termination, to singly, or doubly terminated applications.
- Eight inch (20 cm) twisted pair pigtails for easy installation.

### GENERAL

The Q7740A,B FTT Repeaters interconnect E-Bus FTT network segments increasing the network wiring length, in a LonWorks® network E-Bus system.

## DESCRIPTION

The Q7740A,B FTT Repeaters interconnect E-Bus FTT network segments increasing the network wiring length, in a LonWorks® network E-Bus system.

## SPECIFICATIONS

### Power Supply Requirements

24 Vac with a valid range of 20 to 30 Vac at 50/60 Hz.  
Repeater uses 2 VA maximum at both 50 and 60 Hz.

### CPU

Motorola or Toshiba 3150 Neuron™ processor, containing three eight-bit CPU's. Each Neuron has a unique 48-bit network identification number.

### Communications

The Q7740A,B Repeaters use a FTT transformer-coupled communications port running at 78 kilobits per second (kbs). The E-Bus is insensitive to polarity, eliminating installation errors due to miswiring. See form, 74-2865 E-Bus Wiring Guidelines.

Approved cable types for E-Bus communications wiring are 22 AWG (0.34 mm<sup>2</sup>) plenum or non-plenum rated, nonshielded, twisted pair, solid conductor or Echelon® approved cable. Use cable numbers such as U.S. part AK3791 (one pair) or U.S. part AK3782 (two pair) for nonplenum areas. In plenum areas, use plenum-rated cable numbers such as U.S. part AK3791 (one pair) or U.S. part AK3792 (two pair). Additionally, Echelon® approved cable can be used. Contact Echelon® Corp. Technical Support for the recommended vendors of Echelon® approved cables.

### Field Wiring:

One eight inch (20 cm) twisted pair lead wires (red and black) for 24 Vac power  
One eight inch (20 cm) twisted pair lead wires (brown and yellow) for each E-Bus segment

### Dimensions (H/W/D):

4.13 x 4.13 x 1.63 in. (10.5 x 10.5 x 4.1 cm.)

### Environmental Ratings:

Shipping temperature range: -20° to 120°F (-28° to 49°C)  
Operating temperature range: 32° to 113°F (0° to 45°C)

### Relative Humidity:

5% to 95% noncondensing.

### Approval Bodies:

UL 916, Plenum Rated, NEC Class 2  
cUL  
FCC Part 15 subpart J Class B  
CE Mark

### Accessories:

209541B Excel FTT Termination Module

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