

L-com® Connectivity Products

10/100 & 10/100/1000 Isolated Ethernet Adapter



50 High St., West Mill, Suite #30, North Andover, MA 01845

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sales@L-com.com www.L-com.com

ISO 9002 Registered

Toll Free Ordering

800-341-5266

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1. Specifications

10/100/1000 Isolated Ethernet

LC-60601-1 10/100/1000 Isolated Ethernet

System Requirements	10 MHz, 100 MHz, 1GHz Ethernet network and compatible devices
Interface	10/100/1000 Base-T Ethernet
Isolation	up to 4k Volts
Connectors	(2) RJ45 female jacks
Compliance	designed to comply with European Medical Device Directive, EN60601-1
Power	none required
MTBF	>100,000 hours
Altitude Tolerance	Any
Temperature Tolerance	Operating: 32° to 158° F (0° to 70° C); Storage: -4° to 212° F (-20° to 100° C)
Humidity Tolerance	Up to 95% non-condensing
Dimensions	1.5" H x 2" W x 2" D (3.8 x 5.1 x 5.1 cm)

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2. Introduction

The 10/100 & 1GHz Isolated Ethernet adapter is a compact, self-contained device useful in maintaining high speed Ethernet communications across an electrical isolation barrier. It has been designed for compliance with the European Medical Device Directive EN60601-1, and is intended to be attached to third party certified equipment. When properly installed, this product only provides electrical isolation per EN60601-1 requirements. The user must insure that any other requirements that apply to their particular application are also met.

3. Installation

**! Improper handling of Ground circuits can be hazardous !
Take precautions when installing this device.**

Ethernet cable plugs have recessed signal connections. Some Ethernet cable plugs have metal shields around them. Extra care should be exercised when using Ethernet cables having metal shielded plugs. When installing this isolator, specify cables that do not have metal shields around the plugs.

To install the 10/100 & 1GHz Isolated Ethernet adapter, take these steps:

1. Turn off the connected equipment if possible. If it is NOT possible to turn off the connected equipment, be sure to handle only one connector at a time.
2. Connect an RJ45 Ethernet cable to the RJ45 jack on the network side of the isolator.
3. Using a second Ethernet cable, complete the network connection to the remaining RJ45 jack of the isolator.
4. This completes the installation.

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4. Troubleshooting

If you determine that your Isolated Ethernet adapter is malfunctioning, do not attempt to alter or repair it. Contact your supplier. Be prepared to describe the nature and duration of the problem, when it occurs, the components involved, and any application that seems to create the problem or make it worse.

If you need to transport or ship the isolator, package it carefully. Also, contact your supplier before you ship a unit for repair or return to get a Return Authorization number.

Installation Notes:

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