



**Market Central<sup>®</sup>**  
[www.mctech.com](http://www.mctech.com)

**500 Business Center Drive Pittsburgh, PA 15205 USA**  
**412.494.2800** **CAGE 1BGJ7**

## 10/100 Base-T Ethernet Ethernet Data Isolator

Model # 5000699  
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### 1. Introduction

The 10/100 Megabit Ethernet Data Isolator 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-I.

### 2. Installation

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

Note that the 10/100 Megabit Ethernet Data Isolator has no exposed metal surfaces. 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 Megabit Ethernet Data Isolator, 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 a RJ45 Ethernet cable to the RJ45 jack on one side of the isolator.
3. Using a second Ethernet cable, complete the network connection to the remaining RJ45 jack of the isolator.
4. Turn on the connected equipment.

Market Central Inc., 500 Business Center Drive, Pittsburgh, PA 15205  
Phone: (412) 494-2800, Fax: (412) 494-5550  
[www.mctech.com](http://www.mctech.com) CAGE Code 1BGJ7

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This completes the installation.

## 3. Troubleshooting

If you determine that your 10/100 Megabit Ethernet Data Isolator 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.

## Appendix: Specifications

<b>System Requirements</b>	10 Megabit or 100 Megabit Ethernet network and compatible devices
<b>Interface</b>	10 Megabit / 100 Megabit Ethernet
<b>Isolation</b>	$\geq 4$ kVolts
<b>Connectors</b>	(2) RJ45 female jacks
<b>Compliance</b>	European Medical Device Directive, EN60601-1
<b>Power</b>	From network and device
<b>MTBF</b>	>100,000 hours
<b>Altitude Tolerance</b>	Any
<b>Temperature Tolerance</b>	Operating: 32° to 158° F (0° to 70° C); Storage: -4° to 212° F (-20° to 100° C)
<b>Humidity Tolerance</b>	Up to 95% non-condensing
<b>Dimensions</b>	1.5" H x 2" W x 2" D (3.8 x 5.1 x 5.1 cm)
<b>Weight</b>	0.5 lb. (0.2 kg)

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