

Automation Systems Interconnect 16013

ASI 16013, Type IMRJ0845-1X3, RJ45 Patch Panel Interface Module User Manual

Brand: Automation Systems Interconnect

INTRODUCTION

The ASI 16013, Type IMRJ0845-1x3, is a compact 1x3 RJ45 patch panel designed for industrial Ethernet applications. This module features three shielded RJ45 connectors mounted on a printed circuit board, with each circuit operating in parallel. It provides a quick and easy method to connect up to three Cat5 Ethernet cables. Its compact dimensions are optimized to conserve valuable panel space, and it is engineered to snap securely onto industry-standard DIN rails. The robust mounting foot ensures stability during and after installation. The vertical orientation of the RJ-45 connectors facilitates convenient installation and removal of cables.

SAFETY INFORMATION

Please read and understand all instructions before installing or operating this device. Failure to follow these instructions may result in equipment damage or personal injury.

- Ensure power is disconnected from all connected devices before installation or maintenance.
- This device is intended for use with Cat5 Ethernet cables and compatible networking equipment.
- Do not expose the module to excessive moisture, dust, or extreme temperatures.
- Only qualified personnel should perform installation and maintenance.
- Verify proper grounding for all connected equipment to prevent electrical hazards.

WHAT'S IN THE BOX

Upon opening the package, verify that all components are present and undamaged.

- 1 x ASI 16013, Type IMRJ0845-1X3, RJ45 Patch Panel Interface Module

SETUP AND INSTALLATION

The ASI 16013 module is designed for easy installation on standard DIN rails.

1. **Mounting on DIN Rail:** Locate a suitable section of standard DIN rail within your industrial enclosure or panel. Align the module's robust mounting foot with the DIN rail and press firmly until it snaps securely into place. Ensure the module is stable and does not wobble.
2. **Connecting Ethernet Cables:** The module features three shielded RJ45 ports. Insert your Cat5 Ethernet cables into the RJ45 ports. The vertical access design allows for convenient insertion and removal of cables. Ensure each cable is fully seated and locked into its respective port.
3. **Cable Management:** Route connected Ethernet cables neatly to prevent strain on the connectors and to maintain an organized panel.



Figure 1: The ASI 16013 RJ45 Patch Panel Interface Module, illustrating its compact design and three RJ45 ports for Ethernet cable connections.

OPERATING INSTRUCTIONS

The ASI 16013 functions as a passive RJ45 patch panel, providing a convenient interface for connecting and distributing

Ethernet signals. It is ideal for applications requiring a 1x3 split or connection point for Ethernet cables, such as linking a single network device to multiple other devices or creating a central connection point for three separate Ethernet lines.

- Once installed and cables are connected, the module facilitates direct electrical connection between the RJ45 ports.
- It does not require external power and operates passively.
- Ensure that the connected devices (e.g., computers, servers, routers, switches) are properly configured for network communication.

MAINTENANCE

The ASI 16013 module requires minimal maintenance to ensure optimal performance.

- **Cleaning:** Periodically inspect the module for dust or debris accumulation. Use a soft, dry cloth to gently wipe the exterior. Do not use liquid cleaners or solvents.
- **Inspection:** Regularly check the RJ45 ports and cable connections for any signs of wear, damage, or loose connections. Ensure the module remains securely mounted on the DIN rail.
- **Environment:** Maintain a clean and dry environment around the module to prevent corrosion or damage.

TROUBLESHOOTING

If you experience issues with the ASI 16013 module, consider the following common troubleshooting steps:

- **No Network Connectivity:**
 - Verify that all Ethernet cables are securely plugged into the RJ45 ports on the module and into the connected devices.
 - Check the integrity of the Ethernet cables themselves. Try swapping cables if possible.
 - Ensure the network devices (router, switch, computer) are powered on and functioning correctly.
- **Loose Module:**
 - If the module feels loose on the DIN rail, press it firmly until it clicks into place.
- **Physical Damage:**
 - Inspect the module and its RJ45 ports for any visible physical damage. If damaged, replace the unit.

If problems persist after attempting these steps, contact Automation Systems Interconnect customer support for further assistance.

SPECIFICATIONS

Feature	Detail
Model Number	16013 (IMRJ0845-1X3)
Brand	Automation Systems Interconnect
Connector Type	RJ45 Modules (Shielded)
Number of Ports	3
Cable Type Compatibility	Cat5 Ethernet (and compatible)

Feature	Detail
Mounting Type	DIN Rail Mounted
Compatible Devices	Computer, Server, Router, Switch
Special Feature	Compact Design
Package Dimensions	4.8 x 3.4 x 2.3 inches
Item Weight	1.6 ounces
Country of Origin	United States

WARRANTY AND SUPPORT

For information regarding warranty coverage, technical support, or service inquiries for your ASI 16013 module, please contact Automation Systems Interconnect directly. Refer to the official Automation Systems Interconnect website or product packaging for the most current contact information and warranty details.



Figure 2: Automation Systems Interconnect (ASI) Official Logo.

