

# ADAM-4541

## Fiber Optic to RS-232/422/485 Converter

### Overview

Fiber optic transmission offers the benefits of wide bandwidth, immunity to EMI/RFI interference, and secure data transmission. The ADAM-4541 can be used as an RS-232/422/485 point-to-point or ring connection for transmitting and converting full/half-duplex signals and their equivalents within a fiber optic environment. Fiber optics are the perfect solution for applications where the transmission medium must be protected from electrical exposure, lightning, atmospheric conditions or chemical corrosion.

The ADAM-4541 is specifically designed to link various machinery equipped with RS-232/422/485 communication ports (such as computer systems or manufacturing machines). Using standard ST connectors, the module's fiber optic ports can accommodate a wide range of fiber optic cable sizes, including 62.5/125  $\mu$ m.

### Packing List

Before you begin installing your module, please make sure that the following materials have been shipped:

1 x ADAM-4541 Module with DIN-rail mounting bracket

1 x ADAM-4541 User Manual

1 x Panel Mounting Bracket

1 x Cable for DB-9 to 3-wired (Red RX, White TX, Black GND)

If any of these items are missing/damaged, contact your distributor or sales representative immediately.

### Notes

For more information on this and other Advantech products, please visit our website at:

<http://www.advantech.com>

<http://www.advantech.com/eAutomation>

For technical support and service:

<http://www.advantech.com/twservice>

This startup manual is for the ADAM-4541

Part No: 2003454101

3rd Edition

June 2014

### Features

- Direct plug-and-play
- Easily mounted on a DIN-rail, panel, or poggibacked
- Transmission speeds of up to 115.2 kbps
- Optical fibers enable transmission of up to 2.5 km
- Half/Full-duplex, bidirectional transmission mode
- Support for ring-mode
- Avoid lightning strikes and EMI/RFI
- Prevents damage from electrostatic discharge
- Stable and error-free data transmission
- Automatic internal RS-485 bus supervision
- No external flow control signals required for RS-485
- Transient suppression and over-current protection on RS-232/422/485 data lines
- LED for power and data flow indication

### Specifications

- Fiber Optic: Multimode
- Wavelength: 820 nm
- Transmission Distance: 2.5 km
- Optical Power Budget (attenuation): 15 dB
- Casing: ABS with captive mounting hardware
- Communication Mode: Asynchronous
- Connector: Plug-in screw terminal
- Fiber port: ST
- Transmission Mode: Full/Half-duplex, bidirectional
- Transmission Rate: Up to 115.2 kbps
- Power Requirement: Unregulated +10 ~ +30 Vdc
- Operating Temperature: -10 ~ 70°C (14 ~ 158°F)
- Operating Humidity: 5 ~ 95% (non-condensing)
- Accessories: DIN-rail mounting adapter, panel mounting bracket

### Two Year Warranty

Advantech warrants to you, the original purchaser, that this product will be free from defects in materials and workmanship for two years from the date of purchase. This warranty does not apply to any products which have been repaired or altered by persons other than repair personnel authorized by Advantech, or which have been subject to misuse, abuse, accident or improper installation. Advantech assumes no liability under the terms of this warranty as a consequence of such events.

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# 4541 0part Manual

**SJ Ball**

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