# **ADAM-6541** Series

## **Ethernet to FiberOptic Converters**



### **Features**

- Provides 1 x 10/100 Mbps Ethernet port with RJ45 connector
- Provides 1 x 100 Mbps multi-mode fiber optic port
- Supports full/half duplex flow control and internal jumper for setting
- Supports store and forward transmission
- Supports auto-negotiation
- Supports MDI/MDI-X auto crossover
- Provides surge protection (EFT) 3,000 V<sub>DC</sub> for power line
- Provides 4,000 V<sub>DC</sub> Ethernet ESD protection
- Supports +10 ~ 30 V<sub>DC</sub> power input
- Provides flexible mounting : DIN-rail, Panel Mounting, Piggy-back
- Supports operating temperature from 0 ~ 60°C

## Introduction

ADAM-6541 is designed to convert Ethernet networks to fiber networks. It does so by transparently converting Ethernet signals to optic signals. The advantages of fiber optics are wide bandwidth, EMI immunity and long-distance transmission capability. Therefore, ADAM-6541 is an ideal solution for "fiber to building" applications at central offices or local sites.

ADAM-6541 supports MDI/MDIX auto detection, so you don't need to use crossover wires. It also includes a switch controller that can sense the transmission speed (10/100 Mbps) automatically.Both the Ethernet port and the fiber port have memory buffers that support store-and-forward mechanisms. This assures data can be transmitted properly.

ADAM-6541 is extremely compact and can be mounted in three different ways: DIN-rail, Wall and Stack. ADAM-6541 can work normally from 0 ~ 60°C and accepts a wide voltage range from +10 ~ 30 V<sub>DC</sub>. Besides, it also provides 3,000 V<sub>DC</sub> surge (EFT) protection against over-voltage, so it is suitable for harsh operating environments.

## **Specifications**

#### **Communications**

- Standard
- LAN
- Transmission Distance Ethernet : Fiber

Transmission Speed

Up to 100 m Multi-mode : Up to 2 km Single-mode : Up to 20 km Up to 100 Mbps

IEEE 802.3, 802.3u, 802.3x

10/100Base-TX, 100Base-FX

## Interface

Connectors

LED Indicators

#### Power

- Power Consumption
- Power Input

#### Mechanism

- Dimensions (W x H x D) 70 x 112 x 27 mm
- IP30, ABS+PC with solid mounting kits Enclosure

1 x RJ-45

 Mounting DIN 35 rail, Wall, Stack

#### Protection

- ESD (Ethernet) 4.000 Vpc
- Isolation (Ethernet) 1,500 Vrms
- Surge (EFT for power) 3,000 V<sub>DC</sub>

#### Environment

- Operating Temperature 0 ~ 60°C (32 ~ 140°F) Stack: 0 ~ 55°C (32 ~ 131°F)
  Storage Temperature 10 ~ 70°C (-14 ~ 158°F)

  - Operating Humidity 20 ~ 95% (non-condensing)  $0 \sim 95\%$  (non-condensing)
  - Storage Humidity MTBF
    - 550.000 hrs

#### Certification

- Safety
- EMC

UL 60950-1, CAN/CSA-C22.2 No.60950 U.S.A.: FCC Part 15 CISPR 22 EU: EN55011, EN61000-6-4 EN55022 Class A. EN61000-3-2/3 EN55024, IEC61000-4-2/3/4/5/6/8/11 EN61000-6-2

## **Ordering Information**

- ADAM-6541 ADAM-6541/ST
- Ethernet to Multi-mode SC Type Fiber Optic Converter Ethernet to Multi-mode ST Type Fiber Optic Converter

Programmable Automation Controllers AD\ANTECH

All product specifications are subject to change without notice

1 x SC type fiber connector (ADAM-6541) or 1 x ST type fiber connector (ADAM-6541/ST) 2-pin removable screw terminal (power) ADAM-6541, ADAM-6541/ST : Power, Full/Link (100BASE-FX), 100/10M (Ethernet)

ADAM-6541, ADAM-6541/ST : Max. 3W

1 x Unregulated 10 ~ 30 VDC

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