ADAM-6541/ST (New) 100Base-FX Multi-mode ST Type Fiber Optic Converter

10/100Base-TX Ethernet to



Features

- Supports full/half duplex flow control
- Supports Integrated Loop-up engine
- Supports MDI/MDI-X auto crossover
- Provides broadcast storm protection
- Supports +10 ~ 30 V_{nc} voltage power input
- Provides surge protection (EFT) 3,000 V_{nc} for power line
- Provides flexible mounting: DIN-rail, panel, piggyback
- Supports operating temperatures from -10 ~ 65° C
- Embedded a switch controller-supports auto-negotiation
- Embedded a memory buffer-supports store and forward transmission



Introduction

ADAM-6541/ST is an industrial-grade converter 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/ST is an ideal solution for "fiber to building" applications at central offices or local sites. ADAM-6541/ST 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/ST is extremely compact and can be mounted in three different ways: DIN-rail, panel and piggyback. ADAM-6541/ST can operate from -10 ~ 65° C and accepts a wide voltage range from +10 ~ 30 VDC. Besides, it also provides 3,000 VDC surge protection (EFT) against over-voltage so it is suitable for harsh operating environments.

Specifications

Communications

Standard IEEE 802.3, 802.3u, 802.3x LAN 10/100Base-TX, 100Base-FX

 Transmission Distance Ethernet: 100 m

Fiber: 2 km

Transmission Speed Ethernet: up to 100 Mbps

Fiber: 100 Mbps

Interface

Connectors 1 x RJ-45

1 x ST type fiber optic connector

LED Indicators Power, Full/Link (100Base-FX), 100/10 M (Ethernet)

Power

 Power Connectors 2-pin removable screw terminal

 Power Consumption Max. 3 W

Unregulated 10 ~ 30 V_{DC} Power Input

Mechanism

Dimensions (WxHxD) 70 x 112 x 27 mm

Enclosure IP30, ABS+PC with solid mounting hardware

- Mounting DIN 35 rail, stack, wall

Protection

 Isolation Protection 1,500 V_{rms} (Ethernet port) Surge (EFT) Protection 3,000 V_{DC} (Power)

Environment

Operating Temperature $-10 \sim 65^{\circ} \text{ C } (14 \sim 149^{\circ} \text{ F})$

stack: -10 ~ 60° C (14 ~ 140° F) Storage Temperature -20 ~ 80° C (-4 ~ 176° F) **Operating Humidity** 20 ~ 95% (non-condensing) Storage Humidity 0 ~ 95% (non-condensing)

MTBF 550,000 hrs

Certifications

UL 60950-1, CAN/CSA-C22.2 No.60950 Safety

EMC U.S.A.: FCC Part 15 CISPR 22

EU: EN55011 EN55022 Class A, EN61000-3-2/3 EN55024

IEC61000-4-2/3/4/5/6/8/11

Ordering Information

 ADAM-6541 10/100Base-TX Ethernet to 100Base-FX Multi-mode

SC Type Fiber Optic Converter

 ADAM-6541/ST 10/100Base-TX Ethernet to 100Base-FX Multi-mode ST Type Fiber Optic Converter

10/100Base-TX Ethernet to 100Base-FX WDM Single ADAM-6542/W15

Strand Fiber Optic Converter (Tx:1550nm, Rx:1310nm) 10/100Base-TX Ethernet to 100Base-FX WDM Single ADAM-6542/W13

Strand Fiber Optic Converter (Tx:1310 nm, Rx:1550nm)

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