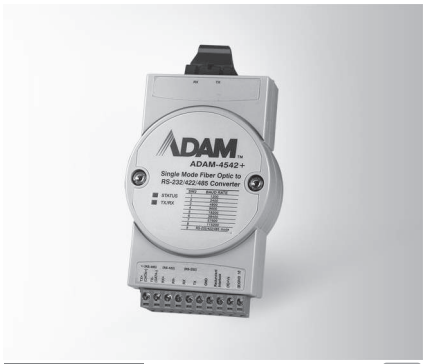
ADAM-4541
ADAM-4542+
ADAM-4561/4562

Multi-mode Fiber Optic to RS-232/422/485 Converter

Single-mode Fiber Optic to RS-232/422/485 Converter

1-port Isolated USB to RS-232/422/485 Converter

ADAM-4541



ADAM-4542+

ADAM-4561/4562

Specifications

General

- **Power Input** Unregulated 10 ~ 30 V_{DC}
- **Connectors** 1 x plug-in terminal block (#14 ~ 22 AWG) (RS-232/422/485)
  2 x ST fiber connector
- **Power Consumption** 0.4 W @ 24 V DC typ.
  0.7 W @ 24 V DC max.
- **Operation Modes** Support Point-to-Point, and Ring (half-duplex)

Fiber Optic Communications

- **Optical Power Budget (Attenuation)** 15 dB (measured with 62.5/125 µm)
- **Transmission Distance** 2.5 km
- **Transmission Mode** Multi mode (Send and Receive)
- **Wavelength** 820 nm

Serial Communications

- **Communication Mode** Asynchronous
- **Speed Modes (bps)** 1200, 2400, 4800, 9600, 19.2 k, 38.4 k, 57.6k, 115.2 k and RS-232/422 mode (switchable)
- **Transmission Mode** Full/half duplex, bidirectional

Specifications

General

- **Power Input** Unregulated 12 ~ 24 V_{DC}
- **Connectors** 1 x plug-in terminal block (#14 ~ 22 AWG) (RS-232/422/485)
  1 x SC fiber connector
- **Power Consumption** 3 W @ 24 V_{DC}
- **Operation Modes** Support Point-to-Point, Redundant and Ring (half-duplex)

Fiber Optic Communications

- **Optical Power Budget (Attenuation)** 15 dB
- **Transmission Distance** 15 km
- **Transmission Mode** Single mode (Send and Receive)
- **Wavelength** 1310 nm

Serial Communications

- **Communication Mode** Asynchronous
- **Speed Modes (bps)*** 1200, 2400, 4800, 9600, 19.2 k, 38.4 k, 57.6 k, 115.2 k, 230.4 k, 460.8 k, 921.6 k and RS-232/422 mode (switchable)
- **Transmission Modes** Full/half duplex, bidirectional

* The highest speed for RS-232 mode is 115.2 kbps

Specifications

General

- **Connectors**
  Network: USB-type B connector (type A to type B cable provided)
  Serial:
  ADAM-4561: 1 x plug-in terminal (#14 ~ 22 AWG) (3-wire RS-232/422/485)
  ADAM-4562: 1 x DB-9 serial connectors (9-wire RS-232)
- **Isolation Voltage**
  ADAM-4561: 3,000 V_{DC}
  ADAM-4562: 2,500 V_{DC}
- **Power Consumption**
  ADAM-4561: 1.5 W @ 5 V
  ADAM-4562: 1.1 W @ 5 V
- **Driver Support**
  ADAM-4561/4562: Windows 2000/XP/ Vista/7/8 (32&64-bit)
- **USB Specification Compliance**
  ADAM-4561: USB 2.0
  ADAM-4562: USB 2.0

Serial Communications

- **Speed Modes (bps)**
  ADAM-4561: 600 bps to 115.2 kbps
  ADAM-4562: 75 bps to 115.2 kbps
- **Transmission Modes** Full/half duplex, bidirectional

Common Specifications

Environment

- **Operating Humidity** 5 ~ 95% RH
- **Operating Temperature** ADAM-4541/4542+: -10 ~ 70°C (14 ~ 158°F)
  ADAM-4561/4562: -10 ~ 70°C (14 ~ 158°F)
- **Storage Temperature** -25 ~ 85°C (-13 ~ 185°F)

Ordering Information

- **ADAM-4541** Multi-mode Fiber to RS-232/422/485 Converter
- **ADAM-4542+** Single-mode Fiber to RS-232/422/485 Converter
- **ADAM-4561** 1-port Isolated USB to RS-232/422/485 Converter
- **ADAM-4562** 1-port Isolated USB to RS-232 Converter

All product specifications are subject to change without notice.

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