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 | FM APPROVED | CE | RoHS COMPLIANT 2002/95/EC | c(UL)us LISTED E180881 I.T.E.

ADAM-4542+ | FCC CE | RoHS COMPLIANT 2002/95/EC | c(UL)us LISTED E180881 I.T.E.

ADAM-4561/4562 | FCC CE | RoHS COMPLIANT 2002/95/EC | c(UL)us LISTED E180881 I.T.E.

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**   1.5 W @ 24 V_{DC}
- **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 A 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

ADVANTECH   RS-485 I/O Modules: ADAM-4000

All product specifications are subject to change without notice   Date updated: 24-Jun-2015

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