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