ADAM-4541
Multi-mode Fiber Optic to RS-232/422/485 Converter

ADAM-4542+
Single-mode Fiber Optic to RS-232/422/485 Converter

ADAM-4561/4562
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}

Serial Communications

- **Communication Mode** — Asynchronous
- **Speed Modes (bps)** — 1,200, 2,400, 4,800, 9,600, 19.2 k, 38.4 k, 57.6 k, 115.2 k and RS-232/422 mode (switchable)
- **Transmission Mode** — Full/half duplex, bidirectional

Fiber Optic Communications

- **Optical Power Budget (Attenuation)** — 12.5 dB (measured with 62.5/125 µm)
- **Transmission Distance** — 2.5 km
- **Transmission Mode** — Multi mode (Send and Receive)
- **Wavelength** — 820 nm

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)
- **Redundant Transfer Time** — 1 µs

Serial Communications

- **Communication Mode** — Asynchronous
- **Speed Modes (bps)*** — 1,200, 2,400, 4,800, 9,600, 19.2 k, 38.4 k, 57.6 k, 115.2 k, 230.4 k, 460.8 k, 921.6 k and RS-232/422/485 mode (switchable)
- **Transmission Modes** — Full/half duplex, bidirectional

Fiber Optic Communications

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

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: Windows 2000/XP/Vista/7/8 (32&64-bit)
  ADAM-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)** — 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: 0 ~ 70°C (32 ~ 158°F)
- **Storage Temperature** — -25 ~ 85°C (-13 ~ 185°F)

Ordering Information

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

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