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 Converters

ADAM-4541

RoHS COMPLIANT CE FM APPROVED

ADAM-4542+

RoHS COMPLIANT CE FCC

ADAM-4561/4562

RoHS COMPLIANT CE FCC

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)** — 1200, 2400, 4800, 9600, 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 10 ~ 30 V_{DC}
- **Connectors** — 1 x Plug-in terminal block (#14 ~ 22 AWG) (RS-232/422/485) 1 x SC fiber connector
- **Power Consumption** — 1.5 W @ 24 V_{DC}

Serial Communications

- **Communication Mode** — Asynchronous
- **Speed Modes (bps)** — 1200, 2400, 4800, 9600, 19.2 k, 38.4 k, 57.6 k, 115.2 k and RS-232/422 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: — 3000 V_{DC}
  ADAM-4562: — 2500 V_{DC}
- **Power Consumption**
  ADAM-4561: — 1.5 W @ 5 V
  ADAM-4562: — 1.1 W @ 5 V
- **Driver Support** — Windows 98/2000/XP
- **Full Compliance with USB v1.1 specifications**

Serial Communications

- **Speed Modes (bps)** — 75 bps to 115.2 kbps
- **Transmission Modes** — Full/half duplex, bidirectional

Common Specifications

Environment

- **Humidity** — 5 ~ 95% RH
- **Operating Temperature** — -10 ~ 70° C (14 ~ 158° F)
- **Storage Temperature** — -25 ~ 85°C (-13 ~ 185°F)

Ordering Information

- **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** — 1-port Isolated USB to RS-232/422/485 Converter
- **ADAM-4562** — 1-port Isolated USB to RS-232 Converter