

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

- **Connectors** 1 x Plug-in terminal block (#14 ~ 22 AWG) (RS-232/422/485)
2 x ST fiber connector
- **Power Consumption** 1 W (typ), 1.5 W (max)

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 mm)
- **Transmission Distance** 2.5 km
- **Transmission Mode** Multi mode (Send and receive)
- **Wavelength** 820 nm

Specifications

General

- **Connectors** 1 x Plug-in terminal block (#14 ~ 22 AWG) (RS-232/422/485)
1 x SC fiber connector
- **Power Consumption** 1 W (typ), 1.5 W (max)

Serial Communications

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

Fiber Optic Communications

- **Optical Power Budget (attenuation)** 15 dBm
- **Fiber Redundant Support**
- **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)
ADAM-4562: 1 x DB-9 serial connectors
- **Isolation Protection**
ADAM-4561: 3,000 V_{DC}
ADAM-4562: 2,500 V_{DC}
- **Power Consumption**
ADAM-4561: 300 mA @ 5 V (Max.)
ADAM-4562: 220 mA @ 5 V (Max.)

Serial Communications

- **Driver Support** Windows 98/2000/XP
- **Speed Modes (bps)** 75 bps to 115.2 kbps
- **Transmission Modes** Full/half duplex, bidirectional
- **USB Compatibility** V 1.1

Common Specifications

General

- **Dimensions (WxHxD)** 70 x 112 x 25 mm
- **Enclosure** ABS+PC
- **Mounting** DIN 35 rail, stack, wall
- **Power Input** Unregulated 10~30 V_{DC}

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

ADAM 4000/4100 Series

Common Specifications

Communication

- RS-485 (2-wire) to host
- Speeds: 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 bps (ADAM-4080, ADAM-4080D only support up to 38400 bps)
- Max. communication distance: 4000 feet (1.2 km)
- Power and communication LED indicator
- ASCII command/response protocol
- Communication error checking with checksum
- Asynchronous data format:
 - Advantech protocol: 1 start bit, 8 data bits, 1 stop bit, no parity
 - Modbus protocol: 1 start bit, 8 data bits, 1 or 2 stop bit, parity check (none, odd, even) (ADAM-4100 series only)
- Up to 256 multidrop modules per serial port
- Online module insertion and removal
- Transient suppression on RS-485 communication lines

Dimensions

