

# 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

- **Power Input** Unregulated 10 ~ 30 V<sub>DC</sub>
- **Connectors** 1 x plug-in terminal block (#14 ~ 22 AWG)  
2 x ST fiber connector
- **Power Consumption** 1.5 W @ 24 V<sub>DC</sub>

### 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<sub>DC</sub>
- **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<sub>DC</sub>
- **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<sub>DC</sub>
- ADAM-4562: 2,500 V<sub>DC</sub>

### 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
- **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