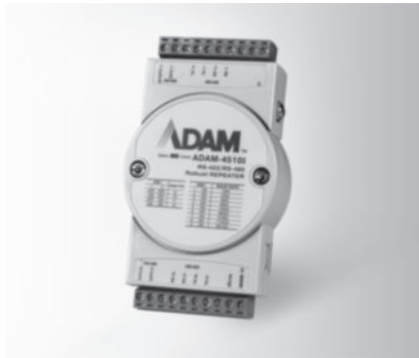


# ADAM-4510I ADAM-4520I ADAM-4117

Robust RS-422/485 Repeater

Robust RS-232 to RS-422/485 Converter

Robust 8-ch Analog Input Module with Modbus



ADAM-4510I

FCC CE RoHS UL



ADAM-4520I

FCC CE RoHS UL



ADAM-4117

FCC CE RoHS UL

## Specifications

### General

- Connectors 2 x plug-in terminal blocks (#14 ~ 22 AWG)
- Power Consumption 1.4 W @ 24 V<sub>DC</sub>

### Communications

- Input RS-485 (2-wire) or RS-422 (4-wire)
- Output RS-485 (2-wire) or RS-422 (4-wire)
- Speed Modes (bps) 1,200, 2,400, 4,800, 9,600, 19.2 k, 38.4 k, 57.6 k, 115.2 k, RTS control and RS-422 (switchable)
- Supports Auto Baud-Rate
- Provide RS-485 to RS-422 Convert Ability

## Specifications

### General

- Connectors 1 x plug-in terminal block (#14 ~ 22 AWG) (RS-422/485) 1 x DB9-F (RS-232)
- Power Consumption 1.2 W @ 24 V<sub>DC</sub>

### Communications

- Input RS-232 (DB9)
- Output RS-485 (2-wire) or RS-422 (4-wire)
- Speed Modes (bps) 1,200, 2,400, 4,800, 9,600, 19.2 k, 38.4 k, 57.6 k, 115.2 k, RTS control and RS-422 (switchable)
- Supports Auto Baud-Rate

## Specifications

### General

- Connectors 2 x plug-in terminal blocks (#14 ~ 22 AWG)
- Watchdog Timer System (1.6 second) & Communication
- Supported Protocols ASCII Command and Modbus/RTU
- Power Consumption 1.2 W @ 24 V<sub>DC</sub>

### Analog Input

- Channels 8 differential and independent configuration channels
- Input Impedance Voltage: 800 K $\Omega$  Current: 120  $\Omega$
- Input Type mV, V (supports unipolar and bipolar), mA
- Input Range 0 ~ 150mV, 0 ~ 500mV, 0 ~ 1V, 0 ~ 5V, 0 ~ 10V, 0 ~ 15V,  $\pm 150$  mV,  $\pm 500$  mV,  $\pm 1$  V,  $\pm 5$  V,  $\pm 10$  V,  $\pm 15$  V,  $\pm 20$  mA, 0 ~ 20 mA, 4 ~ 20mA
- Accuracy Voltage mode :  $\pm 0.1\%$  or better Current mode :  $\pm 0.2\%$  or better
- Resolution 16-bit
- Sampling Rate 10/100 samples/sec (selected by utility)
- CMR @ 50/60 Hz 92 dB
- NMR @ 50/60 Hz 60 dB
- Over Voltage Protection  $\pm 60$  V<sub>DC</sub>
- High Common Mode 200 V<sub>DC</sub>
- Span Drift  $\pm 25$  ppm/ $^{\circ}$ C (Typical)
- Zero Drift  $\pm 6\mu$ V/ $^{\circ}$ C
- Built-in TVS/ESD Protection

## Common Specifications

### General

- Power Input Unregulated 10 ~ 48 V<sub>DC</sub> w/power reversal protection
- Isolation Voltage 3,000 V<sub>DC</sub>

### Environment

- Operating Humidity 5 ~ 95% RH
- Operating Temperature -40 ~ 85 $^{\circ}$ C (-40 ~ 185 $^{\circ}$ F)
- Storage Temperature -40 ~ 85 $^{\circ}$ C (-40 ~ 185 $^{\circ}$ F)
- Supports Noise Rejection

## Ordering Information

- ADAM-4510I Robust RS-422/485 Repeater
- ADAM-4520I Robust RS-232 to RS-422/485 Converter
- ADAM-4117 Robust 8-ch Analog Input Module with Modbus