

# ADAM-4510I

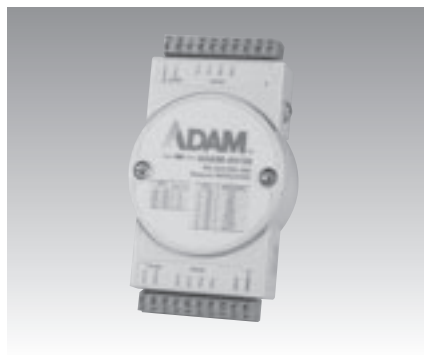
# ADAM-4520I

# 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



ADAM-4520I



ADAM-4117



## 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)** 1200, 2400, 4800, 9600, 19.2 k, 38.4 k, 57.6 k, 115.2 k, RTS control and RS-422. (switchable)
- **Support 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 (4-wire)
- **Output** RS-485 (2-wire) or RS-422 (4-wire).
- **Speed Modes (bps)** 1200, 2400, 4800, 9600, 19.2 k, 38.4 k, 57.6 k, 115.2 k, RTS control and RS-422. (switchable)
- **Support Auto Baud-Rate**

## Specifications

### General

- **Connectors** 2 x Plug-in terminal block (#14 ~ 22 AWG)
- **Watchdog Timer** System (1.6 second) & Communication
- **Support Protocol** 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: 20 MΩ  
Current: 120 Ω
- **Input Type** mV, V (supports uni-polar and bipolar), mA
- **Input Range** 0 ~ 150mV, 0 ~ 500mV, 0 ~ 1V, 0 ~ 5V, 0 ~ 10V, 0 ~ 15V, ±150 mV, ±500 mV, ±1V, ±5 V, ±10 V, ±15V, ±20 mA, 0 ~ 20 mA
- **Accuracy** Voltage mode : ±0.1% or better  
Current mode : ±0.2% or better
- **Resolution** 16 bits
- **Sampling Rate** 10/100 samples/sec (selected by Utility)
- **CMR @ 50/60 Hz** 92 dB
- **NMR @ 50/60 Hz** 60 dB
- **Over Voltage Protection** ±60 V<sub>DC</sub>
- **High Common Mode** 200 V<sub>DC</sub>
- **Span Drift** ±25 ppm/° C
- **Zero Drift** ±6µV/° C
- **Built-in TVS/ESD Protection**

## Common Specifications

### General

- **Power Input** Unregulated 10 ~ 48 V<sub>DC</sub> w/power reversal protection
- **Isolation Voltage** 3000 V<sub>DC</sub>

### Environment

- **Humidity** 5 ~ 95% RH
- **Operating Temperature** - 40 ~ 85° C (-40 ~ 185° F)
- **Storage Temperature** - 40 ~ 85° C (-40 ~ 185° F)

## 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®