# 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**







### **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)

(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) 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

 $\begin{array}{c} \text{channels} \\ \bullet \quad \text{Input Impedance} \end{array} \quad \begin{array}{c} \text{channels} \\ \text{Voltage: 20 M}\Omega \end{array}$ 

Current:  $120 \Omega$ Input Type

Type

Ry, V (supports

unipolar 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, 4 ~ 20mA

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
 NMR @ 50/60 Hz
 92 dB
 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
 3,000 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)

- Supports Noise Rejection

# **Ordering Information**

**ADAM-4510I** Robust RS-422/485

Repeater

ADAM-4520I Robust RS-232 to

RS-422/485 Converter

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Modbus