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With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# ADAM-6217

# ADAM-6224

## 8-ch Isolated Analog Input Modbus TCP Module

## 4-ch Isolated Analog Output Modbus TCP Module



ADAM-6217



### Specifications

#### Analog Input

- **Channels** 8 (differential)
- **Input Impedance** > 10 MW (voltage)  
120 W (current)
- **Input Type** mV, V, mA
- **Input Range**  $\pm 150$  mV,  $\pm 500$  mV,  $\pm 1$  V,  $\pm 5$  V,  $\pm 10$  V, 0~20 mA, 4~20 mA,  $\pm 20$  mA
- **Span Drift**  $\pm 30$  ppm/ $^{\circ}$ C
- **Zero Drift**  $\pm 6$   $\mu$ V/ $^{\circ}$ C
- **Resolution** 16-bit
- **Accuracy**  $\pm 0.1\%$  of FSR (Voltage) at 25 $^{\circ}$ C  
 $\pm 0.2\%$  of FSR (Current) at 25 $^{\circ}$ C
- **Sampling Rate** 10 sample/second (total)
- **CMR @ 50/60 Hz** 92 dB
- **NMR @ 50/60 Hz** 67 dB
- **Common Mode** 200 V<sub>DC</sub>

### Ordering Information

- **ADAM-6217** 8-ch Isolated Analog Input Modbus TCP Module



ADAM-6224



### Specifications

#### Analog Output

- **Channels** 4
- **Output Impedance** 2.1  $\Omega$
- **Output Settling Time** 20  $\mu$ s
- **Driving Load** Voltage: 2k $\Omega$   
Current: 500  $\Omega$
- **Programmable Output Slope** 0.125 ~ 128 mA/sec
- **Output Type** 0.0625 ~ 64 V/sec
- **Output Range** V, mA
- **Accuracy** 0 ~ 5 V, 0 ~ 10 V,  $\pm 5$  V,  $\pm 10$  V, 0 ~ 20 mA, 4 ~ 20 mA  
 $\pm 0.3\%$  of FSR (Voltage) at 25 $^{\circ}$ C  
 $\pm 0.5\%$  of FSR (Current) at 25 $^{\circ}$ C
- **Resolution** 12-bit
- **Current Load Resistor** 0 ~ 500  $\Omega$
- **Drift**  $\pm 50$  ppm/ $^{\circ}$ C

#### Digital Input

- **Channels** 4 (Dry Contact only)
- **Dry Contact** Logic 0: Open  
Logic 1: Closed to DGND
- **Support DI Filter**
- **Support Inverted DI Status**
- **Support Trigger to Startup or Safety Value**

### Ordering Information

- **ADAM-6224** 4-ch Isolated Analog Output Modbus TCP Module

### Common Specifications

#### General

- **Ethernet** 2-port 10/100 Base-TX (for Daisy Chain)
- **Protocol** Modbus/TCP, TCP/IP, UDP, HTTP, DHCP
- **Connector** Plug-in 5P/15P screw terminal blocks
- **Power Input** 10 ~ 30 V<sub>DC</sub> (24 V<sub>DC</sub> standard)
- **Watchdog Timer** System (1.6 seconds)  
Communication (Programmable)
- **Dimensions** 70 x 122 x 27 mm
- **Protection** Built-in TVS/ESD protection  
Power Reversal protection  
Over Voltage protection:  $\pm 35$ V<sub>DC</sub>  
Isolation protection: 2500 V<sub>DC</sub>
- **Power Consumption** ADAM-6217: 3.5W @ 24 V<sub>DC</sub>  
ADAM-6218: 3.5W @ 24 V<sub>DC</sub>  
ADAM-6224: 6W @ 24 V<sub>DC</sub>

#### Features

- Daisy chain connection with auto-bypass protection
- Remote monitoring and control with smart phone/pad
- Group configuration capability for multiple module setup
- Flexible user-defined Modbus address
- Intelligent control ability by Peer-to-Peer and GCL function
- Multiple protocol support: Modbus TCP, TCP/IP, UDP, HTTP, DHCP
- Web language support: XML, HTML 5, JavaScript
- System configuration backup
- User Access Control

#### Environment

- **Operating Temperature** -10 ~ 70 $^{\circ}$ C (14 ~ 158 $^{\circ}$ F) ADAM-6224  
-20 ~ 70 $^{\circ}$ C (-4 ~ 158 $^{\circ}$ F) ADAM-6217, ADAM-6218
- **Storage Temperature** -20 ~ 80 $^{\circ}$ C (-4 ~ 176 $^{\circ}$ F)
- **Operating Humidity** 20 ~ 95% RH (non-condensing)
- **Storage Humidity** 0 ~ 95% RH (non-condensing)