

# Analog Input Remote I/O Module

# RIO-2017



## Features

- Remote analog input module with web access AJAX and Modbus TCP
- One 10/100Mbps Ethernet port
- 8x 16bit A/D, isolation up to 2500Vrms
- 1 x relay output
- Form A or Form B relay with contact rating 30VDC@1A or 125VAC@0.5A
- Support web-based I/O control
- Optional DIN RAIL mounting kit (DK-35A)
- Windows configuration utility included

## ■ H/W Specifications

### CPU / Memory

- CPU: NXP Arm Cortex-M3 LPC1768 100MHz
- Memory: 512KB on-chip Flash, 64KB SRAM

### Network Interface

- Type: 1 x 10/100Mbps, RJ45 connector
- Protection: 1.5KV Magnetic isolation
- Protocol: Modbus / TCP, UDP, HTTP, DHCP

### Isolation Analog Input

- No. of Channels: 8
- Input Type: Differential input
- Input Mode: Voltage / Current
- Resolution: 16-bit
- Input Range:
  - Unipolar: 0~150mV, 0~500mV, 0~1V, 0~5V, 0~10V
  - Bipolar: +/-150mV, +/-500mV, +/-1V, +/- 5V, +/-10V
- Current: 0~20mA
- Input Impedance: 20M Ohm (voltage), 120 Ohm (current)
- Accuracy: +/-0.1% FSR
- Isolation: 2500Vrms

### Relay Output

- No. of Channels: 1
- Contact Rating: 30VDC@1A or 125VAC@0.5A

### General

- Power Input: +9~+48VDC (Terminal block)
- Protection: Auto polarity and surge protect
- Dimensions (W x H x D): 78 x 108 x 24mm (3.0x4.25x0.94in)

## ■ Front View



## ■ Access Control Guidelines

### Default Access Ports

- Modbus / TCP Port: 502
- Telnet Console Port: 5001
- HTTP Port: 5003

### Access Through Modbus Protocols

- Modbus / TCP via LAN interface

### Access Through HTTP GET / POST Protocols

- AJAX-enabled demo page for up-and-running web-based monitoring and controls



## ■ Windows Utility Functionalities

- Broadcast search
- Configuration
- User web page conversion

## ■ Ordering Information

### RIO-2017

- Analog Input Remote I/O Module

### DK-35A (36-DK35A-000)

- DIN RAIL Mounting Kit

### PWR-12V-1A (31-62100-000)

- 110~240VAC to 12VDC 1A Power Adapter