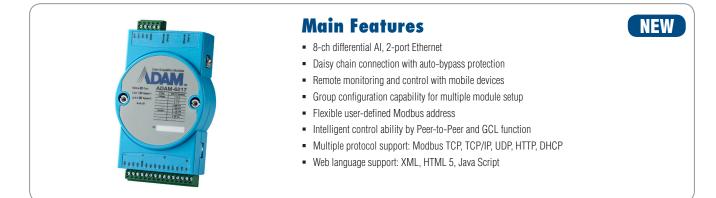
# ADAM-6217

8-ch Isolated Analog Input Modbus TCP Module





# Introduction

In order to fulfill ideal remote DAQ devices in IoT world, Advantech releases ADAM-6200 series, a new selection of Ethernet I/O family comprised of analog I/O, digital I/O and relay modules. ADAM-6200 series module possesses plenty of advanced features whatever the evolution of hardware design and what's worth expecting for user is a variety of useful software functions to make it effective in the application field. With new design and strong capabilities, ADAM-6200 can be a well-integrated I/O solution in Ethernet control system.

# Features

## **Daisy Chain Networking and Auto-Bypass Protection**

Daisy chain connectivity offers flexible cabling and space saving capabilities. With Ethernet auto-bypss function supported, it prevents accidental power failure if one of the module's unexpectedly shuts down.



## **Group Configuration Capability for Multiple Module Setup**

To aid configuration and save time, engineers can configure and upgrade the firmware of multiple ADAM-6200s simultaneously.



## **Remote Monitoring and Control with Smart Phone**

With support for HTML5, the ADAM-6200 can be monitored and controlled from any browser on mobile devices whilst in the field and when the engineer is connected to their network.



Ethernet I/O Modules

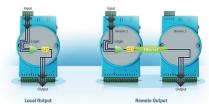
## **Peer-to-Peer**

Modules will actively update the input channel status to specific output channels. Without dealing with the trouble of long distance wiring, users can define the mapping between a pair of modules.

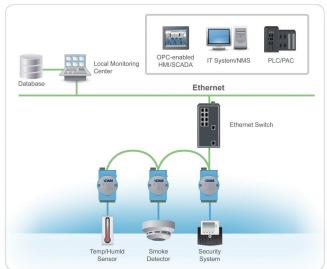


## **Graphic Condition Logic**

Users can define the control logic rules through graphical configuration Utility, and download defined logic rules to specific ADAM module. Then, it will execute the logic rules automatically just like a standalone controller.



## Architecture



#### More Information Click Here Last updated : 10-Jun-2014

# Remote I/O

# **Specifications**

8 (differential)

mV, V, mA

± 30 ppm/°C

±6µV/°C

16-bit

92 dB

60 dB

 $200 V_{\text{DC}}$ 

 $> 10 M\Omega$  (voltage) 120  $\Omega$  (current)

±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V, 0~20 mA, 4~20 mA, ±20 mA

± 0.1% of FSR (Voltage) at 25°C

± 0.2% of FSR (Current) at 25°C

2-port 10/100 Base-TX (for Daisy Chain)

Modbus/TCP, TCP/IP, UDP, HTTP, DHCP

Plug-in 5P/15P Screw Terminal Blocks

10 - 30 V<sub>DC</sub> (24 V<sub>DC</sub> Standard)

10 sample/second (total)

## **Analog Input**

- Channels
- Input Impedance
- Input Type
- Input Range
- Span Drift
- Zero Drift
- Resolution
- Accuracy
- Sampling Rate
- CMR @ 50/60 Hz
- NMR @ 50/60 Hz
- Common Mode

## General

- Ethernet
- Protocol
- Connector
- Watchdog Timer
- Power Input
- Protection
- System (1.6 Seconds) Built-in TVS/ESD Protection
- Power Reversal Protection Over Voltage Protection: +/- 35 V<sub>DC</sub> Isolation Protection: 2500 V<sub>DC</sub>
- Power Consumption 3.5W @ 24 V<sub>DC</sub>
- Dimensions (W x H x D) 70 x 122 x 27 mm

PC

- Enclosure
- Mounting

#### Software

• .NET Class Library (SDK) Windows and Windows CE Class Library, VB and VC# Sample Code for I/O Reading or Configuration and Communication

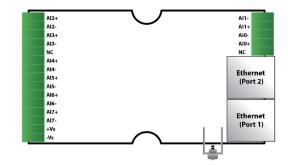
DIN 35 Rail, Stack, Wall

 Adam/Apax .NET Utility Network setting, I/O Configuration, Data Stream, P2P, GCL Configuration

### Environment

- Operating Temperature -10 ~ 70°C (14 ~ 158°F)
- Storage Temperature -20 ~ 80°C (-4 ~ 176°F)
- **Operating Humidity** 20 ~ 95% RH (non-condensing)
- Storage Humidity 0 ~ 95% RH (non-condensing)

## **Pin Assignment**



## **Ordering Information**

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

DIN-rail Power Supply (2.1A Output Current)

Panel Mount Power Supply (3A Output Current)

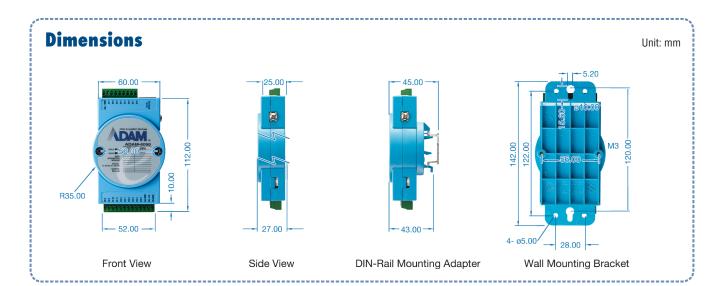
Panel Mount Power Supply (4.2A Output Current)

### Accessories

- PWR-242
- PWR-243
- PWR-244

### Software

- PCLS-ADAMVIEW32
- PCLS-OPC/MTP30
- ADAMView Data Acquisition Software OPC Server for Modbus/TCP protocol



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