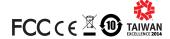
# **ADAM-6217**

# 8-ch Isolated Analog Input Modbus TCP Module



NEW



# **Main Features**

- 8-ch differential AI, 2-port Ethernet
- Daisy chain connection with auto-bypass protection
- · Remote monitoring and control with mobile devices
- 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, Java Script

# 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.

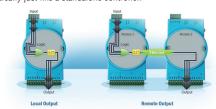
# Peer-to-Peer

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.

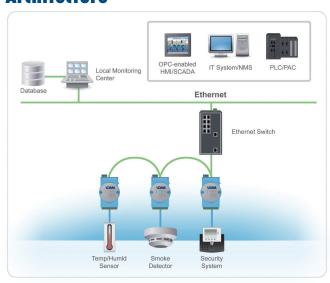


### **Graphic Condition Logic**

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**



<u>AD\ANTE</u>CH

Ethernet I/O Modules

More Information Click Here

Remote I/O **ADAM-6217** 

# **Specifications**

# **Analog Input**

Channels 8 (differential) Input Impedance  $> 10 \text{ M}\Omega$  (voltage) 120  $\Omega$  (current)

Input Type mV, V, mA

 Input Range ±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V,

0~20 mA, 4~20 mA, ±20 mA

Span Drift ± 30 ppm/°C Zero Drift  $\pm$  6  $\mu$ V/°C Resolution 16-bit

 $\pm~0.1\%$  of FSR (Voltage) at 25°C Accuracy

± 0.2% of FSR (Current) at 25°C

 Sampling Rate 10 sample/second (total)

 CMR @ 50/60 Hz 92 dB NMR @ 50/60 Hz 60 dB  $200 \; V_{\text{DC}}$ Common Mode

#### General

2-port 10/100 Base-TX (for Daisy Chain) Ethernet Modbus/TCP, TCP/IP, UDP, HTTP, DHCP Protocol Plug-in 5P/15P Screw Terminal Blocks Connector Power Input 10 - 30 V<sub>DC</sub> (24 V<sub>DC</sub> Standard) Watchdog Timer System (1.6 Seconds) Protection 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

Enclosure

- Mounting DIN 35 Rail, Stack, Wall

#### Software

• .NET Class Library (SDK) Windows and Windows CE Class Library, VB and VC#

Sample Code for I/O Reading or Configuration and

Communication

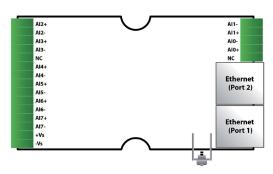
Adam/Apax .NET Utility Network setting, I/O Configuration, Data Stream, P2P,

GCL Configuration

#### **Environment**

**Operating Temperature**  $-10 \sim 70^{\circ}\text{C} (14 \sim 158^{\circ}\text{F})$ **Storage Temperature**  $-20 \sim 80^{\circ}\text{C} (-4 \sim 176^{\circ}\text{F})$ **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

### **Accessories**

PWR-242 DIN-rail Power Supply (2.1A Output Current) PWR-243 Panel Mount Power Supply (3A Output Current) PWR-244 Panel Mount Power Supply (4.2A Output Current)

#### Software

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

