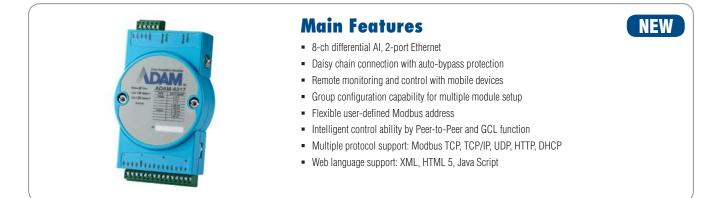
ADAM-6217

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

All product specifications are subject to change without notice

AD\ANTECH

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

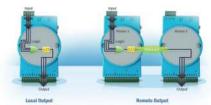
Peer-to-Peer

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.

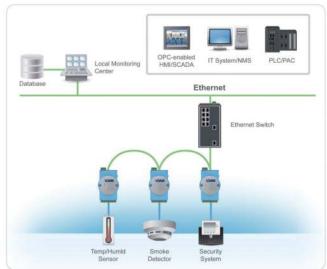


Graphic Condition Logic

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

- **Analog Input** Channels 8 (differential) Input Impedance $> 10 M\Omega$ (voltage) 120 Ω (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 ±6µV/°C Resolution 16-bit
- Accuracy
- Sampling Rate
- CMR @ 50/60 Hz
- NMR @ 50/60 Hz
- Common Mode

General

- Ethernet
- Protocol
- Connector
- Power Input
- Watchdog Timer
- Protection
- Plug-in 5P/15P Screw Terminal Blocks 10 - 30 V_{DC} (24 V_{DC} Standard) System (1.6 Seconds) Built-in TVS/ESD Protection Power Reversal Protection Over Voltage Protection: +/- 35 V_{DC}

PC

92 dB

60 dB

 $200 V_{\text{DC}}$

± 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

10 sample/second (total)

- Power Consumption
 Isolation Protection: 2500 V_{DC}
 3.5W @ 24 V_{DC}
- Dimensions (W x H x D) 70 x 122 x 27 mm
- Enclosure
- Mounting DIN 35 Rail, Stack, Wall

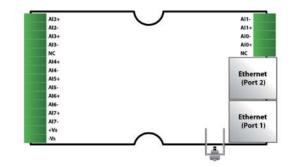
Software

- .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 ~ 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)

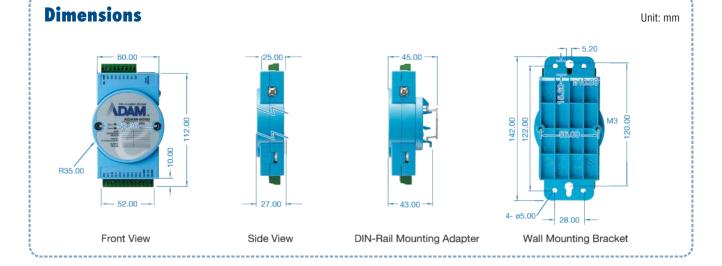
Accessories

- 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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