ADAM-6224

4-ch Isolated Analog Output Modbus TCP Module



NEW



Main Features

- 4-ch AO, 4-ch DI, 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.

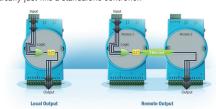
Peer-to-Peer

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-6224**

Specifications

Analog Output

Channels 2.1 Ω - Output Impedance - Output Settling Time 20 µs Driving Load Voltage: $2k\Omega$

Current: 500 Ω Programmable 0.125 ~ 128 mA/sec **Output Slope** 0.0625 ~ 64 V/sec

 Output Type V, mA

 Output Range $0 \sim 5 \text{ V}, 0 \sim 10 \text{ V}, \pm 5 \text{ V}, \pm 10 \text{ V}$

 $0 \sim 20 \text{ mA}, 4 \sim 20 \text{ mA}$

Accuracy ± 0.3% of FSR (Voltage) at 25°C

± 0.5% of FSR (Current) at 25°C

Resolution 12-bit Current Load Resistor $0 \sim 500 \Omega$ Drift \pm 50 ppm/°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

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 10 - 30 V_{DC} (24 V_{DC} Standard) Power Input

 Watchdog Timer System (1.6 Seconds) Communication (Programmable)

 Protection Built-in TVS/ESD Protection

Power Reversal Protection Over Voltage Protection: ± 35 V_{DC} Isolation Protection: 2500 V_{DC}

- Power Consumption 6W @ 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

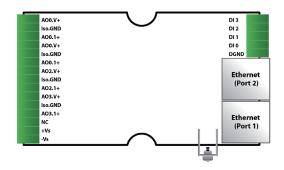
- Adam/Apax .NET Utility Network Setting, I/O Configuration, Data Stream, P2P,

GCL Configuration

Environment

• Operating Temperature $-10 \sim 70^{\circ}\text{C} (14 \sim 158^{\circ}\text{F})$ 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

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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

