ADAM-6250

15-ch Isolated Digital I/O Modbus TCP Module



NEW



Main Features

- 8-ch DI, 7-ch DO, 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.

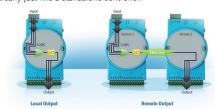
Peer-to-Peer

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\ANT</u>ECH

Ethernet I/O Modules

More Information Click Here

Remote I/O **ADAM-6250**

Specifications

Digital Input

Channels

Logic 0: Open Dry Contact

Logic 1: Closed to DGND

Logic 0: 0 ~ 3 V_{DC} or 0 ~ -3 V_{DC} Wet Contact

Logic 1: $10 \sim 30 \text{ V}_{DC}$ or $-10 \sim -30 \text{ V}_{DC}$ (Dry/Wet Contact Decided by Switch)

 Input Impedance 5.2 kW (Wet Contact)

 Transition Time 0.2 ms • Frequency Input Range 0.1 ~ 3kHz

3kHz (32 bit + 1 bit Overflow) Counter Input Keep/Discard Counter Value when Power Off

Supports Inverted DI Status

Digital Output

Channels 7 (Sink Type) Output Voltage Range 10 ~ 30 V_{DC}

• Normal Output Current 100 mA (Per Channel)

 Pulse Output Up to 5kHz

Delay Output High-to-Low and Low-to-High

General

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

 LED Indication 8 DI + 7 DO

Protocol Modbus/TCP, TCP/IP, UDP, HTTP, DHCP Plug-in 5P/15P Screw Terminal Blocks Connector Power Input 10 - 30 V_{DC} (24 V_{DC} Standard)

 Watchdog Timer System (1.6 Seconds)

Communication (Programmable) Built-in TVS/ESD Protection Protection Power Reversal Protection Over Voltage Protection: +/- 35 V_{DC}

Isolation Protection: 2500 V_{DC} 3 W @ 24 Vnc

 Power Consumption **Dimensions (W x H x D)** 70 x 122 x 27 mm

Enclosure

DIN 35 Rail, Stack, Wall 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

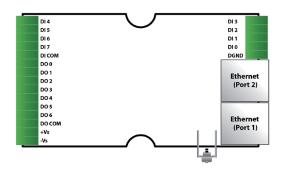
- Adam/Apax .NET Utility Network Setting, I/O Configuration, Data stream, P2P,

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

