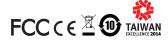
# ADAM-6250

## 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.

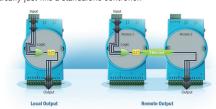
### Peer-to-Peer

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.

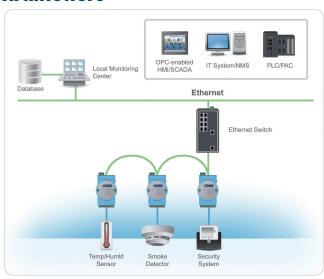


#### **Graphic Condition Logic**

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**



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Remote I/O ADAM-6250

# **Specifications**

### **Digital Input**

• Channels 8

• Dry Contact Logic 0: Open

Logic 1: Closed to DGND

• Wet Contact Logic 0:  $0 \sim 3 \text{ V}_{DC}$  or  $0 \sim -3 \text{ V}_{DC}$ 

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

• Input Impedance 5.2 kW (Wet Contact)

Transition Time 0.2 ms
 Frequency Input Range 0.1 ~ 3kHz

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

Supports Inverted DI Status

### **Digital Output**

Channels 7 (Sink Type)
 Output Voltage Range 10 ~ 30 V<sub>DC</sub>
 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
 Connector Plug-in 5P/15P Screw Terminal Blocks
 Power Input 10 - 30 V<sub>DC</sub> (24 V<sub>DC</sub> Standard)

• Watchdog Timer System (1.6 Seconds)

Communication (Programmable)

• 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 W @ 24 V<sub>DC</sub>
 Dimensions (W x H x D) 70 x 122 x 27 mm

■ Enclosure PC

• **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

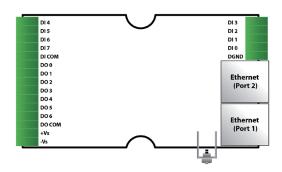
Adam/Apax .NET Utility Network Setting, I/O Configuration, Data stream, P2P,

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**

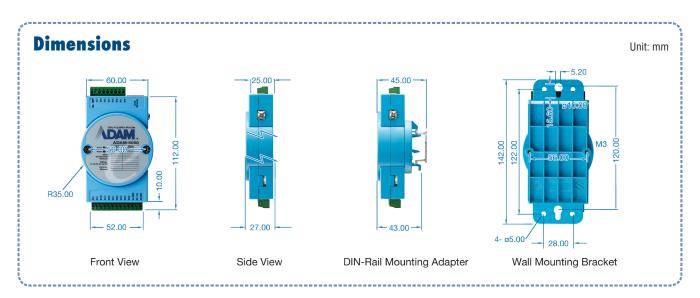
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### Accessories

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



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