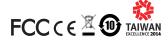
# **ADAM-6250**

### 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**

All product specifications are subject to change without notice

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.

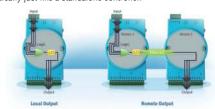
### Peer-to-Peer

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\4NT</u>ECH

**Ethernet I/O Modules** 

More Information Click Here

**Remote I/0 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

 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 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) Communication (Programmable)

Built-in TVS/ESD Protection Protection Power Reversal Protection

Over Voltage Protection: +/- 35 V<sub>DC</sub> Isolation Protection: 2500 V<sub>DC</sub>

 Power Consumption 3 W @ 24 Vnc **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

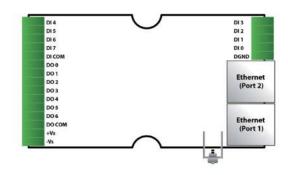
- Adam/Apax .NET Utility Network Setting, I/O Configuration, Data stream, P2P,

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**

 ADAM-6250 15-ch Isolated Digital I/O 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

