# ADAM-4502 Ethernet-enabled Communication Controller with 2-ch Al/O and 4-ch Dl/O



#### **Features**

- 10/100Base-T(X) Ethernet interface
- Email alarm function
- Built-in web server
- Built-in FTP server and client
- Supports functionally versatile I/O modules
- Full functions of standard TCP and UDP sockets
- Supports Modbus/RTU and Modbus/TCP function libraries
- 1.5 MB Flash ROM/640 kB SRAM
- 4 serial ports
- Integrated all operations in Windows utility



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## Introduction

With its modular design, ADAM-4502 has all the same functionality as ADAM-4501, but provides different I/O options. The ADAM-4502 provides one Ethernet interface and 4 serial ports module, but also features 1 analog input, 1 analog output, 2 digital inputs and 2 digital outputs. This versatility allows users to implement rich interfaces for different applications.

# **Specifications**

#### General

1 x RJ45 (Ethernet) Connectors

1 x RJ48 (COM1)

2 x plug-in terminal blocks (#14 ~ 28 AWG) LEDs for Power, run, communication and battery

Power Input Unregulated 10 ~ 30 V<sub>DC</sub> w/power reversal protection

**System** 

Indicators

Consumption

CPU 40 MHz, 16-bit CPU Power 4 W @ 24 V<sub>DC</sub>

Memory 1.5 MB flash memory:

- 256 kB system flash disk (Drive C: Read Only) - 256 kB flash memory (accessed by function LIB) - 1024 kB file system, 960 kB for user applications

(Drive D: Read/Write)

640 kB SRAM, up to 384 kB with battery backup

(accessed by function LIB)

Real-time Clock (RTC) Watchdog Timer Yes

#### **Analog Input**

Channels Input Type mV, V, mA

 Input Range ±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V, ±2.5V, ±20 mA

 Resolution 16-bit

100 Sample/second Sampling rate Isolation Voltage  $1,000 V_{DC}$ 

#### **Analog Output**

Channels Output Type V, mA

**Output Range** 0 ~ 10 V, 0 ~ 20 mA

Slew Rate 1 V/μs Isolation Voltage  $1,000 V_{DC}$ 

#### **Digital Input**

Channels

Input Level

Wet Contact:

Dry Contact: Logic level 0 : Close to GND

Logic level 1: Open Logic level 0 : 2 V max.

Logic level 1:4 V ~ 30 V

### **Digital Output**

Channels 2, open collector to 40 V, 1 A max. load

 Power Dissipation 1 W load maximum

#### **Communication**

- LAN 1 x 10/100Base-T RS-485 Speed 1.2 to 115.2 kbps

COM1: RS-232 (Full Modem Signals) Serial Ports

COM2. COM3: RS-485

COM4: RS-232 (Programming Port)/RS-485 (Selected

by Jumper)

#### Software

C Library Borland C++ 3.0 for DOS

 Operating System **ROM-DOS** 

#### **Environment**

- Humidity 5 ~ 95% RH

• Operating Temperature  $-10 \sim 70^{\circ} \text{ C} (14 \sim 158^{\circ} \text{ F})$ ■ **Storage Temperature** - 25 ~ 85° C (-13 ~ 185° F)

# Ordering Information

 ADAM-4502 Ethernet Comm Controller w/2-ch Al/O, 4-ch Dl/O

