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





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

Introduction

General

Connectors 1 x RJ45 (Ethernet) 1 x RJ48 (COM1)

2 x plug-in terminal blocks (#14 ~ 28 AWG) LEDs for Power, run, communication and battery Unregulated 10 ~ 30 V_{pc} w/power reversal protection

Indicators Power Input

System

CPU 40 MHz, 16-bit **CPU Power** 4 W @ 24 V_{DC} Consumption

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

Input/Output

Analog Input

Channels Input Type mV, V, mA

 ± 150 mV, ± 500 mV, ± 1 V, ± 5 V, ± 10 V, $4 \sim 20$ mA Input Range

Resolution 16-bit

Sampling rate 100 Sample/second

Isolation Voltage 1000 V_{DC}

Analog Output

Channels Output Type V, mA

0 ~ 10 V, 0 ~ 20 mA, 4 ~ 20 mA Output Range

Slew Rate 1 V/us Isolation Voltage 1,000 V_{DC} Digital Input

Channels:

Logic level 0: Close to GND Dry Contact: Logic level 1 : Open Wet Contact: Logic level 0: +2 V max. Logic level 1:4 V ~ 30 V

Digital Output

Channels: 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