ADAM-4502
Ethernet-enabled Communication Controller with 2-ch AI/O and 4-ch DI/O

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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

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

Connectors	1 x RJ45 (Ethernet) 1 x RJ48 (COM1) 2 x plug-in terminal blocks (#14 ~ 28 AWG)
Indicators	LEDs for Power, run, communication and battery
Power Input	Unregulated 10 ~ 30 V_{DC} w/power reversal protection

System

CPU	40 MHz, 16-bit
CPU Power Consumption	4 W @ 24 V_{DC}
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)	Yes
Watchdog Timer	Yes

Analog Input

Channels	1
Input Type	mV, V, mA
Input Range	±150 mV, ±500 mV, ±1 V, ±5 V, ±10 V, ±2.5V, ±20 mA
Resolution	16-bit
Sampling rate	100 Sample/second
Isolation Voltage	1,000 V_{DC}

Analog Output

Channels	1
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	2	
Input Level		
Dry Contact:		Logic level 0 : Close to GND Logic level 1 : Open
Wet Contact:		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
Serial Ports	COM1: RS-232 (Full Modem Signals) 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 ~ 70° C (14 ~ 158° F)
Storage Temperature	- 25 ~ 85° C (-13 ~ 185° F)

Ordering Information

ADAM-4502	Ethernet Comm Controller w/2-ch AI/O, 4-ch DI/O