ADAM-4501 ADAM-4501D

Ethernet-enabled Communication Controller with 8-ch DI/O

Ethernet-enabled Communication Controller with 8-ch DI/O and 7-segment LED



Features

- 10/100Base-T Ethernet interface
- Email alarm function
- Built-in web server
- Built-in FTP server and client
- Supports versatile I/O modules
- Full functions of standard TCP and UDP sockets
- Optional 4 digit 7-segment LED display
- Supports Modbus/RTU and Modbus/TCP function libraries
- 1.5 MB Flash ROM/640 kB SRAM
- 4 serial ports available
- Integrates all operations in Windows utility

ADAM-4501

ADAM-4501D





Introduction

The ADAM-4501/D consists of compact-sized Ethernet-enabled communication controllers with a x86 CPU architecture. They support not only an Ethernet interface but also 4 serial ports, which makes them very suitable for industrial communication and control applications. The Ethernet-enabled features include built-in HTTP Server, FTP Server and email alarm functions. The modularized I/O design provides high flexibility for versatile application requirements. The ADAM-4501/D also supports rich Modbus function libraries including Modbus/RTU (Master/Slave) and Modbus/TCP (Server/Client) function libraries.

Specifications

General

Connectors
 1 x RJ45 (Ethernet)
 1 x RJ49 (COM1)

1 x RJ48 (COM1)

2 x Plug-in terminal blocks (#14 ~ 28 AWG)

Indicators
 Power Input
 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 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) YesWatchdog Timer Yes

Digital Input

Channels

• Input Level

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

Logic level 0 : 2 v max. Logic level 1 : 4 V ~ 30 V

Digital Output

• Channels 4, open collector to 30 V, 30 mA max. load

Power Dissipation 200 mW

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-4501 Ethernet-enabled Comm. Controller w/ 8-ch DI/O
 ADAM-4501D Ethernet-enabled Comm Controller. 8-ch DI/O. LED