ADAM-4501 ADAM-4501D

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

ADAM-4501 with 7-segment LED Display



Features

- 10/100Base-T 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
- 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
- Integrated All Operations in Windows Utility

ADAM-4501

ADAM-4501D





Introduction

The ADAM-4501/4501D 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-4501/4501D 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 RJ48 (COM1)

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

Indicators LEDs for Power, run, communication and battery Power Input Unregulated 10 \sim 30 V_{DC} w/power reversal protection

System

Consumption

CPU 40 MHz, 16-bit CPU Power 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

Input/Output

Digital Input

Channels: 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:

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

Ordering Information

ADAM-4501 Ethernet-enabled Communication Controller with 4 x

 ADAM-4501D ADAM-4501 with 7-segment LED Display