ADAM-4501 ADAM-4501D

Ethernet-enabled Communication Controller with 4 x 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 ~ 30 V_{DC} w/power reversal protection

System

CPU **CPU Power** 40 MHz, 16-bit 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

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

1 x 10/100Base-T - LAN 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 $-10 \sim 70^{\circ} \text{ C } (14 \sim 158^{\circ} \text{ F})$ **Storage Temperature** $-25 \sim 85^{\circ} \text{ C } (-13 \sim 185^{\circ} \text{ F})$

Ordering Information

 ADAM-4501 Ethernet-enabled Communication Controller with 4 x

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