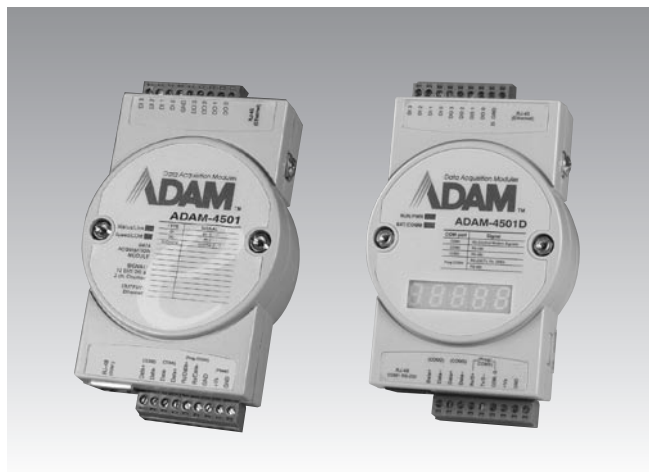


ADAM-4501

ADAM-4501D

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

ADAM-4501 with 7-segment LED Display



ADAM-4501

ADAM-4501D



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

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**
 - 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

Input/Output

- **Digital Input**
 - Channels: 4
 - 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: 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 Communication Controller with 4 x DI/O
- **ADAM-4501D**
 - ADAM-4501 with 7-segment LED Display