# 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

## 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

<ul><li>Connectors</li><li>Indicators</li><li>Power Input</li></ul>	1 x RJ45 (Ethernet) 1 x RJ48 (COM1) 2 x Plug-in terminal blocks (#14 ~ 28 AWG) LEDs for Power, run, communication and battery Unregulated 10 ~ 30 V <sub>DC</sub> w/power reversal protection
System	
CPU	40 MHz, 16-bit
<ul> <li>CPU Power</li> </ul>	4 W @ 24 V <sub>DC</sub>
Consumption	
<ul> <li>Memory</li> </ul>	<ul> <li>1.5 MB flash memory:</li> <li>256 kB system flash disk (Drive C: Read Only)</li> <li>256 kB flash memory (accessed by function LIB)</li> <li>1024 kB file system, 960 kB for user applications (Drive D: Read/Write)</li> <li>640 kB SRAM, up to 384 kB with battery backup (accessed by function LIB)</li> </ul>
<ul> <li>Real-time Clock (RTC)</li> </ul>	Yes
<ul> <li>Watchdog Timer</li> </ul>	Yes
Digital Input	
<ul> <li>Channels</li> </ul>	4

Logic level 0 : Close to GND Logic level 1 : Open

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

#### Communication

- LAN
- RS-485 Speed
- Serial Ports

1 x 10/100Base-T 1.2 to 115.2 kbps COM1: RS-232 (Full Modem Signals) COM2, COM3: RS-485 COM4: RS-232 (Programming Port)/RS-485 (Selected by Jumper)

Borland C++ 3.0 for DOS

ROM-DOS

#### Software

 C Library Operating System

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

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- Input Level Dry Contact:

Wet Conta	ct:
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#### **Digital Output**

Channels

Power Dissipation

4. open collector to 30 V. 30 mA max. load 200 mW