

# ADAM-6501

## Web-enabled Universal Communication Controller with Intel® XScale



CE FCC

### Features

- Powerful Ethernet-enabled communication controller in a tiny package
- Built-in Windows CE .NET to run embedded Ethernet applications
- Embedded web server and FTP server
- Microsoft embedded VC++ development environment
- Built-in CompactFlash® slot
- Built-in Flash disk for Win CE and user applications
- Built-in real-time clock and watchdog timer
- Offers RS-232 and RS-485 communication port
- Automatic data flow control in RS-485 mode
- ADAM.NET Class Library software support

### Introduction

ADAM-6501 is a fully functional Ethernet-enabled controller for industrial automation and control. It provides an ideal environment to develop applications converting RS-232/485 devices/equipment data to the Ethernet/Internet world with minimum effort. Their built-in Windows CE .NET operating system lets users run programs written in Microsoft embedded VC++ and VS.NET development software. The Windows environment also includes a web server to allow the designer to develop web-enabled applications.

### Specifications

#### General

- **Connectors** 1 x RJ-45 (LAN), 1 x RJ-48 (RS-232), Plug-in screw terminal blocks (RS-485 and power)
- **LED Indicators** Power, diagnostics, communications
- **Power Consumption** 4 W @ 24 V<sub>DC</sub>
- **Power Input** Unregulated 10 ~ 30 V<sub>DC</sub>
- **Real-time Clock** Yes
- **Watchdog Timer** Yes, programmable

#### System Hardware

- **CPU** 32-bit Intel® XScale 400 MHz
- **Flash Memory** 32 MB flash memory
- **RAM** 64 MB SDRAM
- **Battery Backup RAM** 2 MB
- **Storage** 1 x CompactFlash slot (external)

#### Protection

- **Power Reversal Protection**

#### Software

- **Operating System** Windows® CE .NET
- **System Management** Web-based remote configuration via standard browser with Java® support. Command line configuration in console mode.

#### Communications

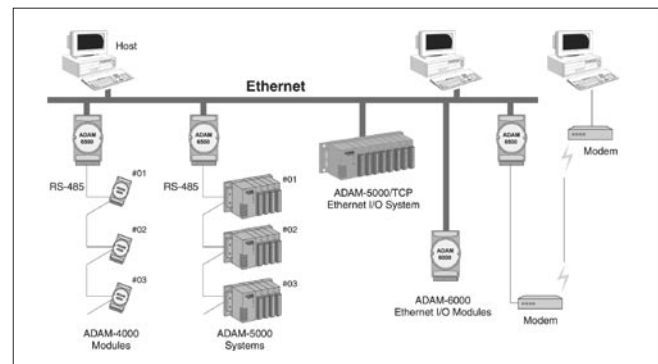
- **Default Setting Recovery** Onboard
- **LAN** 1 x 10/100Base-T (RJ-45)
- **Serial Ports (Isolated)** 1 x RS-232 (RJ-48), 1 x RS-485  
Speed: 115.2 kbps
- **Protocols Supported** TCP/IP, UDP
- **Isolation Voltage** 1000 V<sub>DC</sub> (for COM2: RS-485)

#### Environment

- **Humidity** 5 ~ 95% RH, non-condensing
- **Operating Temperature** 0 ~ 55° C
- **Storage Temperature** -20 ~ 80° C (-13 ~ 185° F)

### Ordering Information

- **ADAM-6501** Web-enabled Communication Controller



ADAM-6501 Modules Installed as Controllers in a Typical System