ADAM-6501

Web-enabled Universal Communication Controller with Intel® XScale



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

CE FCC ROHS

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)

Power, diagnostics, communications LED Indicators

 Power Consumption 4 W @ 24 V_{DC}

 Power Input Unregulated 10 ~ 30 V_{DC}

Real-time Clock

 Watchdog Timer Yes, programmable

System Hardware

CPU 32-bit Intel® XScale 400 MHz Flash Memory 32 MB flash memory 64 MB SDRAM RAM Battery Backup RAM

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 Onboard

Recovery

1 x 10/100Base-T (RJ-45) LAN 1 x RS-232 (RJ-48), 1 x RS-485 Serial Ports (Isolated)

Speed: 115.2 kbps

 Protocols Supported TCP/IP, UDP

 Isolation Voltage 1000 V_{DC} (for COM2: RS-485)

Environment

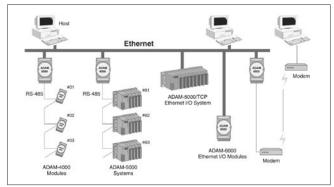
- Humidity 5 ~ 95% RH, non-condensing

• Operating Temperature $0 \sim 55^{\circ} \text{ C}$

■ **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