

ADAM-4572

1-port Modbus® to Ethernet Data Gateway



FCC CE

Features

- Supports 10/100 Mbps communication speeds
- Allows up to 8 clients to access field data simultaneously
- Supports popular HMI software with Modbus/TCP driver or OPC server
- Up to 3 Independent serial ports capacity if configured to RS-485 serial mode
- Provides auto-searching device ID Windows utility
- Surge protection for RS-485 and power line
- Automatic RS-485 data flow control
- Easy mounting on DIN-rail and wall, and can also be stacked
- Supports Modbus/ASCII, Modbus/RTU Protocol to control devices

Introduction

ADAM-4572 serves as an interface between Modbus® serial devices and computer hosts running Modbus/TCP on an Ethernet network. Fully compliant with Modbus/TCP, it is ideal for those who looking for an easy way to connect their existing devices or controllers running Modbus serial protocols (Modbus/ASCII or Modbus/RTU) to Ethernet networks. It works like a bridge between Modbus® serial devices and controllers over TCP/IP Ethernet networks. Benefits are also abundant for customers who want to expand their Ethernet-based Modbus® (Modbus/TCP) applications.

Networks have become increasingly vital for industrial automation applications, but many control devices today do not have a network port and can only communicate with a dedicated local PC or control panel. Advantech's revolutionary network-enabling technology is now allowing control devices with serial ports to connect to the Ethernet and share networks quickly and cost-effectively. The ADAM-4572 Modbus to Ethernet Data Gateway allows users to integrate new and existing Modbus/RTU and Modbus/ASCII serial devices to newer TCP/IP network-based devices. Manufacturers, system integrators, and end users can now use the ADAM-4572 to create networked applications to remotely manage and access data from control devices no matter where they are.

ADAM-4572 provides features such as: 10/100 Mbps data rate for Ethernet/Fast Ethernet connection, serial port speed up to 115.2 kbps, auto-searching device, Modbus® RTU, Modbus/ASCII, Modbus/TCP protocol, diagnostic LEDs, RJ-45 connectors and surge protection on network. This represents a true communication Data Gateway between Ethernet and Modbus, and an easy choice when your factory needs improved network integration and resource sharing.

Specifications

Ethernet Communications

- **Compatibility** IEEE 802.3, IEEE 802.3u
- **Speed** 10/100 Mbps
- **Connectors** 1 x RJ-45

Serial Communications

- **Type** RS-232/422/485
- **Connectors** Screw terminal
- **Ports** 1
- **Data Bits** 7, 8
- **Stop Bits** 1, 2
- **Baud Rate** 300 bps ~ 115.2 kbps
- **Data Signals** RS-232: TxD, RxD, GND
RS-422: TxD+, TxD-, RxD+, RxD-, GND
RS-485: Data+, Data-, GND

Protection

- **Surge Protection** 15 kV_{ESD} for serial signal

Software

- **Drivers Supported** Windows® 98/NT/2000/XP/2003
- **Utility Software** Auto-detecting configuration utility (up to 128 devices)
Device setting: name, description, serial port
- **Operation Mode** Modbus/TCP, Modbus/RTU, Modbus/ASCII
- **Configuration** Configuration utility

Mechanics

- **Dimensions** 70 x 130 x 30 mm
- **Enclosure** ABS+PC with solid mounting hardware
- **Mounting** DIN-rail, stack, wall

General

- **Certifications** CE, FCC class A
- **LED Indicators** Network: Tx/Rx, Link, Speed (10/100 Mbps)
Serial: Tx/Rx
System: Power, Status

Power

- **Power Input** Unregulated 10 ~ 30 V_{DC}
- **Power Consumption** 3 W

Environment

- **Operating Temperature** 0 ~ 60° C (32 ~ 140°F)
- **Storing Temperature** -20 ~ 80° C (-4 ~ 176°F)
- **Operating Humidity** 20 ~ 95% (non-condensing)
- **Storing Humidity** 0 ~ 95% (non-condensing)

Ordering Information

- **ADAM-4572** 1-Port Modbus® to Ethernet Data Gateway