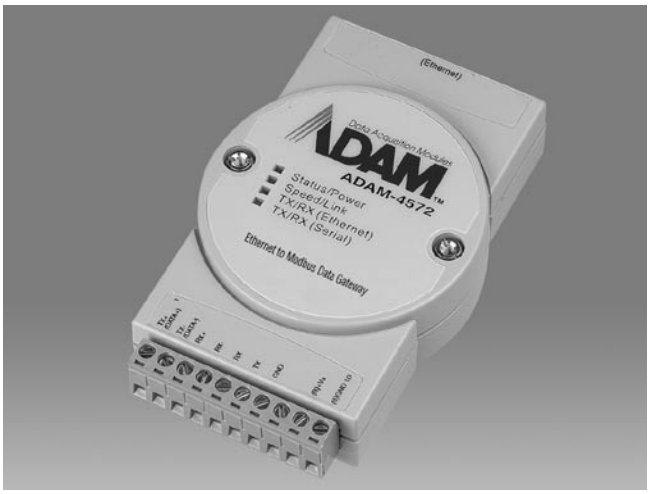
ADAM-4572

1-port Modbus® to Ethernet Data Gateway



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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 , panel piggyback
- Supports Modbus/ASCII, 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

- **Protocols** Ethernet: Modbus/TCP
  Serial: Modbus/RTU, Modbus/ASCII
- **Network Port** 10Base-T (IEEE 802.3) 100Base-TX (IEEE 802.3u)
  RJ-45 connector
- **Serial Port** RS-232/422/485
  plug-in screw terminal
  Transmission speed: 300 bps to 115.2 kbps
  Parity: odd, even, none
  Data bit: 7, 8
  Stop bit: 1, 2
- **Compatibility** Ethernet /IEEE 802.3, IEEE 802.3u
  Modbus/Serial: Modbus/ASCII, Modbus/ RTU
  Network: Modbus/TCP
- **Diagnostic LEDs** Network: Tx/Rx, Link, Speed (10/100 Mbps), Power
  Serial: Status, Tx/Rx
- **Utility Software** Windows-based, device auto-searching (up to 128 devices)
  Device Setting: name, description, serial port
- **Compatible with application software running on Modbus/TCP standard**
- **Power Requirements** Unregulated 10 ~ 30 V_{DC}
- **Power Consumption** 3 W
- **Case** ABS with captive mounting hardware
- **Mounting** DIN-rail, Panel mounting, piggyback stack

Environmental Specifications

- **Operating Temperature** 0 ~ 60° C
- **Storage Temperature** -20 ~ 80° C
- **Operating Humidity** 20 ~ 95% (non-condensing)
- **Storage Humidity** 0 ~ 95% (non-condensing)

Ordering Information

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