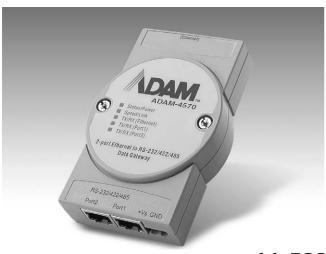# ADAM-4570/4570L

2-port Serial to Ethernet Data Gateway

Features

- Supports RS-232/422/485 serial communications (ADAM-4570)
- Supports RS-232 serial communication (ADAM-4570L)
- Supports 10/100Base-T Ethernet port
- Supports high transmission speeds up to 230 kbps
- Supports an advanced security mechanism to avoid unauthorized access
- Auto-reconnection
- Remote updating of firmware
- Easy management with Port Mapping Utility
- Supports Windows® NT/2000/XP drivers
- Surge protection for serial line signals
- Automatic RS-485 data flow control (ADAM-4570)

CE FCC

Introduction

ADAM-4570 and ADAM-4570L are fast and cost effective data gateways between serial and Ethernet interfaces. They immediately upgrade your existing device(s) to the Ethernet world. Functionally transparent and efficient, ADAM-4570 and ADAM-4570L are specially designed for remote control and monitoring of devices via the Internet.

Two serial ports can each be easily configured for your needs. There is also support for transmission speeds up to 230 kbps, which meets the demand for today's high-speed data exchanges. You can use a Windows utility to configure the units without need for further programming. ADAM-4570 and ADAM-4570L not only protect your current hardware investment but also ensure future network expandability. Since the protocol conversion is transparent, all existing devices can be seamlessly integrated into the Ethernet network. Therefore, ADAM-4570 and ADAM-4570L can be used in security systems, factory automation, SCADA, transportation and more.

Specifications

Ethernet Communications

- **Compatibility**   IEEE802.3, IEEE802.3u
- **Speed**   10/100 Mbps
- **Connectors**   1 x RJ-45

Serial Communications

- **Type**   RS-232/422/485 (ADAM-4570)
                        RS-232 (ADAM-4570L)
- **Connectors**   2 x RJ-48
- **Ports**   2
- **Data Bits**   5, 6, 7, 8
- **Stop Bits**   1, 1.5, 2
- **Parity Bits**   Odd, even, none, space, mark
- **Baud Rate**   50 bps ~ 230 kbps
- **Data Signals**   RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, RI, GND
                        RS-422: TxD+, TxD-, RxD+, RxD-, GND
                        RS-485: Data+, Data-, GND

Protection

- **Surge Protection**   15 kV$_{ESD}$

Software

- **Drivers Supported** Windows NT/2000/XP
- **Utility Software**   Auto-detecting configuration utility (up to 128 devices) port mapping utility
- **Operation Modes**   Virtual COMport
- **Configuration**   Configuration utility
                         Port mapping utility

Mechanics

- **Dimensions (H x W x D)** 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: Status, Power

Power

- **Power Input**   Unregulated 10 to 30 V$_{DC}$
- **Power Consumption** 4 W

Environment

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

Ordering Information

- **ADAM-4570**   2-port RS-232/422/485 to Ethernet Data Gateway (2 pcs of 1 m RJ-48 to male DB9 RS-232/422/485 cable included)
- **ADAM-4570L** 2-port RS-232 to Ethernet Data Gateway (2 pcs of 1 m RJ-48 to male DB9 RS-232/422/485 cable included)
- **OPT1A**   1m RJ-48 to male DB9 RS-232/422/485 cable
- **OPT1D**   30cm RJ-48 to male DB9 RS-232/422/485 cable