ADAM-4577
ADAM-4579

1-port Universal Serial Device Gateway

2-port Universal Serial Device Gateway

CE FCC

Features

- Supports 10/100Base-T (ADAM-4579); 10Base-T (ADAM-4577)
- Supports standard networking API: WinSock, Socket
- Provides multiple networking architectures: polling, event handling, peer-to-peer
- Supports several AT-style commands to control (ADAM-4579)
- Allows a maximum of 8 host PCs to access with command response mode using UDP protocol
- Supports any operating system with TCP/IP protocol: Windows®, Linux® etc.
- Auto-searching Windows configuration utility
- Download and testing utility: Easy to download firmware and self-diagnostic
- Easy to locate specific EDG series
- Mounts on DIN-rail, panel or piggyback easily

Introduction

ADAM-4577 and ADAM-4579 are universal serial device gateways that bring RS-232/422/485 to Ethernet. They allow nearly any device with serial ports to connect and share an Ethernet network. ADAM-4577 and ADAM-4579 provide a quick, simple and cost-effective way to bring the advantages of remote management and data accessibility to thousands of devices that cannot connect to a network.

With ADAM-4577 or ADAM-4579, your existing serial devices can be used with the most popular operating systems on the market. There is no need to write special drivers for specific operating systems. Moreover, you can make serial devices communicate with other devices peer-to-peer, without any intermediate host PCs and software programming. That saves a lot of cost and effort. In addition, you can actively request data or issue commands from the RS-232/422/485 side or Ethernet side. This data can be sent bilaterally. Thus, the ADAM-4577 and ADAM-4579 are especially suitable for remote monitoring environments such as security systems, factory automaton, SCADA, transportation and more.

Specifications

Ethernet Communications

- **Compatibility** IEEE 802.3, IEEE 802.3u
- **Speed** ADAM-4579: 10/100 Mbps
  ADAM-4577: 10 Mbps
- **Connectors** 1 x RJ-45

Serial Communications

- **Type** RS-232/422/485
- **Connectors** ADAM-4577: 1 x DB-9 Male
  ADAM-4579: 2 x RJ-48
- **Ports** ADAM-4577: 1
  ADAM-4579: 2
- **Data Bits** 5, 6, 7, and 8
- **Stop Bits** 1, 1.5, and 2
- **Parity Bits** Odd, even, none, space, mark
- **Baud Rate** 30 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

Software

- **Utility Software** Auto-detecting configuration utility (up to 128 devices)
  Easy-to-diagnose download & testing utility
  UDP testing utility (ADAM-4577)
- **Operation Modes** TCP Server (polling)
  TCP Client (event handling)
  Pair connection (Peer to Peer)
  UDP command response mode (multi-host, ADAM-4577)
  At command like control mode (ADAM-4579)
- **Configuration** Configuration 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** System: Power, status
  Network: Tx/Rx, Link, Speed (10/100 Mbps),
  Serial: TX/RX

Power

- **Power Input** Unregulated 10 ~ 30 V_{DC}
- **Power Consumption** ADAM-4577: 2 W
  ADAM-4579: 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-4577** 1-port Universal Serial Device Gateway
- **ADAM-4579** 2-port Universal Serial Device 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