

ADAM-4570S

ADAM-4571S

**2-port isolated RS-422/485 to
Ethernet Data Gateway**

**1-port Isolated RS-422/485 to
Ethernet Data Gateway**



FCC CE

Features

- Supports 10/100 Base-T Ethernet
- 1,500 V_{RMS} isolation for RS-422/485 port
- Provides Host/Device Idle protection & auto-reconnection function to enhance the reliability of system.
- Supports multiple advanced security protections: Triple DES, IP address control
- Transmission speed up to 230 Kbps
- Remote download firmware: Easy to maintain
- Auto-detecting Configuration Utility
- Easy-managing Port Mapping Utility
- Supports Windows® NT/2000/XP driver
- Automatic RS-485 data flow control

Introduction

The ADAM-4570S/4571S is an advanced security data gateway that works between RS-422/485 and Ethernet interfaces. It not only upgrades your existing RS-422/485 devices to Ethernet, but also provides a quick and safe way to transmit important data via Ethernet. The ADAM-4570S/4571S is specially designed for remotely controlling and monitoring mission critical application environments.

Advanced security features

Multiple advanced security features protect the system. T-DES (Triple Data Encryption Standard); IP address control and configuration. By using T-DES, you can key-in passwords to secure your data. The data cannot be accessed by other host PCs unless the PC have the correct password. This prevents important data from being accessed by an unauthorized users. IP address control can block access to a specific ADAM-4570S. It restricts the access right of up to 32 PCs at one time. In addition to these features, the ADAM-4570S/4571S also protects all configuration settings from being changed inadvertently. When this option is enabled, only the corresponding PC can set the configuration. These functions were all designed for data protection and security as well as overall system reliability.

Host/Device Communication Redundancy improves the reliability of the system (ADAM-4570S)

To improve the stability of systems the ADAM-4570S provides new powerful functions to help you create stable systems - fast. The purpose of the "Host idle" function is to prevent a system hang-up from occurring due to application program failure. If an application program fails, the ADAM-4570S will cut off the connection between the host PC and the ADAM-4570S, so that another PC can start to access the same ADAM-4570S. Also, if the serial device or communication between the device and the ADAM-4570S fails, the "Device Idle" function will switch the communication port from one port to another port to keep communication going with another device automatically. Thus, another device can send data to the ADAM-4570S.

Auto-reconnect after networking recovers

The ADAM-4570S/4571S provides an "Auto-reconnect" function to solve networking breaks problem. When the ADAM-4570S/4571S is powered-off accidentally, the driver will keep trying to reconnect the ADAM-4570S/4571S automatically. When the ADAM-4570S/4571S is powered-on again, through this auto-reconnect function, the host PC can send commands to the ADAM-4570S/4571S immediately. This function enhances the reliability of the system.

Specifications

Protocol	TCP/IP
Network	10/100Base-T Ethernet
Port	1/2 Independent RS-422/485 ports
Connector	Network: RJ-45 Serial: RJ-48 (RJ-48 to DB-9 cable provided)
Security	T-DES (FIPS PUB 46-2), IP address control
Data Protection type	Host idle; device idle, auto-reconnection
Transmission speed	50 bps ~ 230 Kbps
Isolation	1,500 V _{RMS}
Parity bit	Odd, even, none, space, mark
Data bit	5, 6, 7, 8
Stop bit	1, 1.5, 2
Diagnostic LEDs	Network: Tx/Rx, Link, Speed (10/100 Mbps), Power Serial: Tx/Rx, Status

Driver Supported	Windows NT/2000/XP
Power Requirements	Unregulated 10 to 30 V _{DC}
Power Consumption	3.3 Watt (ADAM-4571S); 3.5 watt (ADAM-4570S)
Mounting	DIN-rail, panel mounting, piggyback stack
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-4571S	1-port Isolated RS-422/485 to Ethernet Data Gateway w/Security (includes RJ48 to DB9 cable, 1 m)
ADAM-4570S	2-port Isolated RS-422/485 to Ethernet Data Gateway (includes RJ48 to DB9 cable, 1 m)
Opt1A	100 cm RJ48 to male RS-232/422/485 cable

1
IPPC & AWS

2
TPC

3
FPM

4
ATM

5
DA&C

6
cPCI

7
ADAM-3000

8
eConnectivity

9
ICOM

10
Software

11
UNO-2000/3000

12
VBOX

13
ADAM-4000

14
ADAM-5000

15
ADAM-6000

16
ADAM-8000