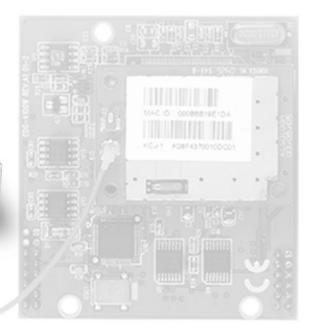


Industrial Ethernet Data Gateways

C	Connect Your Devices to the eWorld - Ethernet Data Gateways				
E	EDG Series Selection Guide				
N	/ireless Gateway Applicatio	n Modules	16-4		
	DAM-4570W (new) DAM-4571W (new)	2-port RS-232/422/485 to 802.11b/g WLAN Data Gateway 1-port RS-232/422/485 to 802.11b/g WLAN Data Gateway	16-5		
	DAM-4579W (new) DAM-4577W (new)	2-port RS-232/422/485 to 802.11b/g WLAN Universal Device Gateway 1-port RS-232/422/485 to 802.11b/g WLAN Universal Device Gateway	16-6		
S	erial to Ethernet Data G	ateway			
	DAM-4571 Dam-4571L	1-port RS-232/422/485 to Ethernet Data Gateway 1-port RS-232 to Ethernet Data Gateway	16-7		
	DAM-4570 Dam-4570l	2-port RS-232/422/485 to Ethernet Data Gateway 2-port RS-232 to Ethernet Data Gateway	16-8		
	DAM-4577 DAM-4579	1-port Universal Serial Device Gateway 2-port Universal Serial Device Gateway	16-9		
Α	DAM-4572	1-port Modbus to Ethernet Data Gateway	16-10		
Е	DG-4504	4-port RS-232/422/485 to Ethernet Data Gateway	16-11		
	DG-4508(R)+ DG-4516(R)+	8-port RS-232/422/485 to Ethernet Data Gateway 16-port RS-232/422/485 to Ethernet Data Gateway	16-12		
U	SB to Serial Data Gatew	rays			
	DAM-4561 DAM-4562	1-port Isolated USB to RS-232/422/485 Converter 1-port Isolated USB to RS-232 Converter	16-14		
	SB-4602B SB-4602BM	2-port RS-232 to USB Converter w/Surge Protection 2-port RS-232/422/455 to USB Converter w/Surge Protection	16-15		
-	SB-4604B SB-4604BM	4-port RS-232 to USB Converter w/Surge Protection 4-port RS-232/422/455 to USB Converter w/Surge Protection	16-16		

6



Connect Your Devices to the eWorld



Introduction

As the world becomes more and more wired, it becomes critical to manage and connect devices. Advantech offers a comprehensive and cost-effective eConnectivity solution for easy installation and operation in critical industrial environments. This solution fulfills all requirements from worldwide enterprises that need supervisory control, operator interfaces, and logging of events and alarms via serial communication over Ethernet networks.

Advantech's eConnectivity Solution is Divided into 3 Parts:

- Ethernet data gateways
- Web-enabled communication controllers
- Serial media converters

Ethernet Data Gateways

Ethernet data gateways enable RS-232/422/485 serial devices to be connected to a host computer over an Ethernet network quickly and cost-effectively. No extra programming effort is required at the host computer, so software development costs can be saved. Ethernet data gateways are especially suitable for remotely controlling and monitoring your serial devices via Ethernet.

RS-232/422/485 to Ethernet Universal Data Gateways

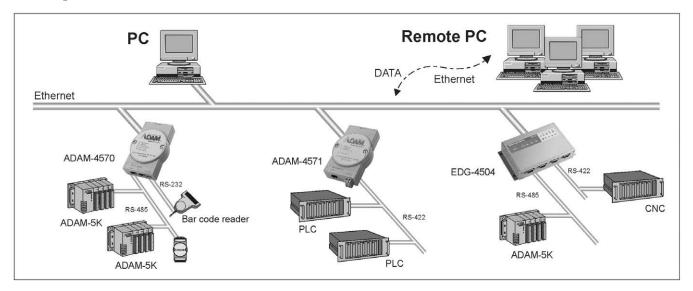
Universal Serial Device Gateways allow RS-232/422/485 serial devices to connect to Ethernet networks and operate as Ethernet nodes. Through TCP, UDP, IP, Socket or Winsock, Universal Serial Device Gateways can be used for different operating systems ranging from Microsoft Windows to Linux. Moreover, serial devices can use peer-to-peer communication without any intermediate host PCs and software programming to save costs and effort.

Modbus to Ethernet Data Gateways

The ADAM-4572 Modbus gateway serves as an interface between Modbus serial devices and computer hosts running Modbus/TCP on Ethernet networks. Fully compliant with Modbus/TCP, the ADAM-4572 offers a convenient solution to connect existing devices or controllers running Modbus serial protocol (Modbus/ASCII or Modbus/RTU) to an Ethernet network.

USB to Serial Data Gateways

The industrial-grade USB to serial converters(ADAM-4561/4562, USB-4602B/4602BM/ 4604B/4604BM) are especially suitable for wide variety of industries such as banking, retail, factory automation, and industrial automation. USB to serial converter provide software selectable RS-232/422/485 port that are compatible with all standard RS-232 or RS-422/485 devices and suitable for printers, POS system, and industrial control devices. Use them to expand your serial ports fast, easily, and cost-effectively.



EDG System Architecture

Industrial Networking Selection Guide

Ethernet Data Gateways

Model Name	Interface	Serial Port	Serial Type	Baud Rate	Connector		Operation Mode	Driver
Model Name Internace Serial Fort Serial Type I		Dauu nale	Network	Serial	Operation mode	Dilvei		
ADAM-4571	10/100Mbps	1	RS-232/422/485	50 ~ 230 kbps	RJ-45	RJ-48	Virtual COM	Windows NT/2000/XP
ADAM-4571L	10/100Mbps	1	RS-232	50 ~ 230 kbps	RJ-45	RJ-48	Virtual COM	Windows NT/2000/XP
ADAM-4570	10/100Mbps	2	RS-232/422/485	50 ~ 230 kbps	RJ-45	RJ-48	Virtual COM	Windows NT/2000/XP
ADAM-4570L	10/100Mbps	2	RS-232	50 ~ 230 kbps	RJ-45	RJ-48	Virtual COM	Windows NT/2000/XP
EDG-4504	10/100Mbps	4	RS-232/422/485	50 ~ 230 kbps	RJ-45	DB9	Virtual COM	Windows NT/2000/XP
EDG-4508(R)+	10/100Mbps	8	RS-232/422/485	50 ~ 230 kbps	RJ-45	RJ-48	Virtual COM, TCP/UDP server mode, TCP/UDP client mode	Windows NT/2000/XP
EDG-4516(R)+	10/100Mbps	16	RS-232/422/485	50 ~ 230 kbps	RJ-45	RJ-48	Virtual COM, TCP/UDP server mode, TCP/UDP client mode	Windows NT/2000/XP
ADAM-4572	10/100Mbps	1	RS-232/422/485	300 ~ 115.2 kbps	RJ-45	RJ-48	Modbus/TCP	Socket or WinSocket
ADAM-4577	10Mbps	1	RS-232/422/485	50 ~ 230 kbps	RJ-45	RJ-48	TCP/UDP server mode, TCP/UDP client mode	Socket or WinSocket
ADAM-4579	10/100Mbps	2	RS-232/422/485	50 ~ 230 kbps	RJ-45	RJ-48	TCP/UDP server mode, TCP/UDP client mode	Socket or WinSocket

Wireless Data Gateways

Model Name	Interface	Serial Port	Serial Type	Baud Rate	Connector	Operation Mode	Driver
ADAM-4571W	802.11b/g	1	RS-232/422/485	50 ~ 230 kbps	RJ-48	Virtual COM	Windows NT/2000/XP
ADAM-4570W	802.11b/g	2	RS-232/422/485	50 ~ 230 kbps	RJ-48	Virtual COM	Windows NT/2000/XP
ADAM-4577W	802.11b/g	1	RS-232/422/485	50 ~ 230 kbps	RJ-48	TCP/UDP server mode, TCP/UDP client mode	Socket or WinSocket
ADAM-4579W	802.11b/g	2	RS-232/422/485	50 ~ 230 kbps	RJ-48	TCP/UDP server mode, TCP/UDP client mode	Socket or WinSocket

USB to Serial Data Converters

Model Name	Interface Serial Port Serial Tvo		Sorial Type	Baud Rate	Conn	ector	Prote	ction	Driver
Mouel Name	IIIteriace	Senai Fuit	Serial Type Baud Rate	USB	Serial	Isolation	Surge	DIIVEI	
ADAM-4561	USB 1.1	1	RS-232/422/485	50 ~ 115.2 kbps	Туре В	Screw terminal	3000 V _{DC} (RS-232/422/485)	3000 V _{DC} (RS-485)	Windows NT/2000/XP
ADAM-4562	USB 1.1	1	RS-232	75 ~ 115.2 kbps	Туре В	DB9	2500 V _{DC}	-	Windows NT/2000/XP
USB-4602B	USB2.0	2	RS-232	50 ~ 921kbps	Туре В	DB9	-	$3000 \; V_{\text{DC}}$	Windows NT/2000/ XP/2003, Linux
USB-4602BM	USB2.0	2	RS-232/422/485	50 ~ 921kbps	Туре В	DB9	-	$3000 \; V_{\text{DC}}$	Windows NT/2000/ XP/2003, Linux
USB-4604B	USB2.0	4	RS-232	50 ~ 921kbps	Туре В	DB9	-	3000 V _{DC}	Windows NT/2000/ XP/2003, Linux
USB-4604BM	USB2.0	4	RS-232/422/485	50 ~ 921kbps	Туре В	DB9	-	$3000 V_{\text{DC}}$	Windows NT/2000/ XP/2003, Linux



Wireless Gateway Application Modules

Wireless Data Gateways

Advantech's Wireless Data Gateways ADAM-4570W and ADAM-4571W make it possible to quickly connect RS-232/422/485 serial devices with PC hosts over 802.11g wireless LAN networks. Functionally transparent and efficient, ADAM-4570W and ADAM-4571W saves costs when existing H/W & S/W must continue to be used and also bring the advantages of remote management and data accessibility to RS-232/422/485 devices that cannot connect to the network.

Problem Free Wireless

Wireless technology allows ADAM-4570W and ADAM-4571W overcome physical limitations and problems saving you installation and maintenance costs. Wireless ADAM-4570W and ADAM-4571W are also suitable for mobile applications.

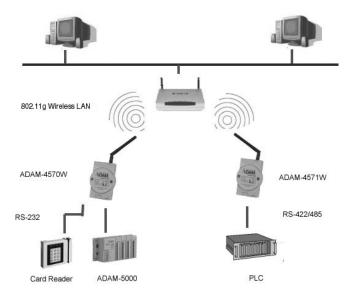
64/128-bit WEP Protection

ADAM-4570W and ADAM-4571W provides 64/128-bit WEP (Wired Equivalent Privacy) to protect your data from hackers trying to steal your valuable data. This function guarantees a safe and reliable transmission of the wireless connection between your host and the serial device.

Flexibility

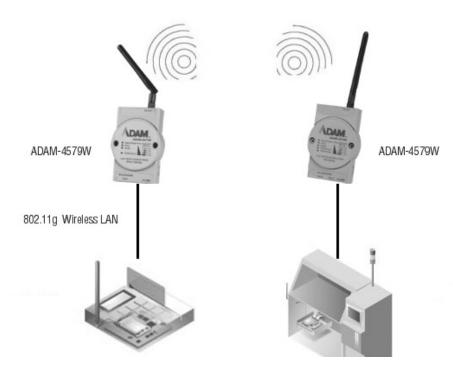
When your production line or processes change, your production facilities must also change. Wiring must be replaced or re-routed to accommodate the changes. With wireless technology, you could configure your whole system without any interrupt and stop, ADAM-4570W and ADAM-4571W actually bring your system convenience and flexibility and make your management easier and more efficient.

Wireless Data Gateway System Architecture



The Wireless Universal Serial Device Gateway

ADAM-4579W and ADAM-4577W are cost effective RS-232/422/485 wireless universal serial device gateway. There is no need to write special driver fo specific operating system. Moreover, you can make serial device communicate with other devices peer-to-peer, without any intermediate host PC and software programming.



ADAM-4570W ADAM-4571W

2-port RS-232/422/485 to 802.11b/q WLAN Data Gateway 1-port RS-232/422/485 to 802.11b/g **WLAN Data Gateway**



Features

- Supports 802.11g and 802.11b
- Supports Wireless LAN Ad-Hoc and Infrastructure modes
- Supports high transmission speeds up to 230 kbps
- Supports an advanced security mechanism to avoid unauthorized access
- Auto-reconnection
- Remote download firmware
- Auto-detecting
- Easy-managing Port Mapping Utility
- Supports Windows® NT/2000/XP drivers
- Surge protection for serial signals
- Automatic RS-485 data flow control

(€ FCC

Introduction

ADAM-4570W and ADAM-4571W are a cost-effective data gateway between RS-232/422/485 and 802.11 b/g Wireless LAN interfaces. Functionally transparent and efficient, ADAM-4570W and ADAM-4571W save costs when existing H/W & S/W must continue to be used. ADAM-4570W and ADAM-4571W bring the advantages of remote management and data accessibility to thousands of RS-232/422/485 devices that cannot connect to the network.

ADAM-4570W and ADAM-4571W provide one or two RS-232/422/485 serial ports, and the transmission speed is up to 230 kbps, meeting the demand for high-speed data exchange. In addition, you can use a Windows utility to configure ADAM-4570W and ADAM-4571W without further programming. This not only protects your current hardware investment but also ensures future network expandability. Since the protocol conversion is transparent, all your existing devices can be seamlessly integrated with the 802.11 g/b wireless LAN network. Therefore, ADAM-4570W and ADAM-4571W can be used in security systems, factory automation, SCADA, transportation and more.

Specifications

Ethernet Communications

 Compatibility 	IEEE 802.11g and 802.11b
 Speed 	54/11 Mbps
 Connectors 	Wireless

Connectors

Serial Communications

- Туре
- Connectors Ports
- Data Bits
- Stop Bits
- Parity Bits **Baud** Rate
- **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

50 bps ~ 230 kbps

Odd, even, none, space, mark

Auto-detecting configuration utility (up to 128 devices)

1.1.5.2

Protection

Surge Protection

Software

- Driver Supported **Utility Software**
- Operation Modes
- Configuration

Mechanics

- Dimensions (H x W x D)
- Enclosure
 - Mountina

General

Certifications LED Indicators CE, FCC class B WLAN: Active, Quality Serial: Tx, Rx System: Status, Power

20~95% (non-condensing)

0 ~ 95% (non-condensing)

Power

Unregulated 10 to 30 VDC **Power Consumption** 4 Watt

Environment

Power Input

- **Operating Temperature** 0~55° C (32~131°F) -20 ~ 80° C (-4 ~ 176°F)
- Storing Temperature **Operating Humidity**
- Storage Humidity

Ordering Information

ADAM-4571W-AE 1-port RS-232/422/485 to WLAN Data Gateway (802.11b) (1 pcs of 1m RJ-48 to male DB9 RS-232/422/485 cable included)

included)

included)

q)

- ADAM-4570W-AE
- ADAM-4571W-BE
- ADAM-4570W-BE
- 2-port RS-232/422/485 to WLAN Data Gateway (802.11b/

g) (2 pcs of 1m RJ-48 to male DB9 RS-232/422/485 cable included)

2-port RS-232/422/485 to WLAN Data Gateway (802.11b) (2 pcs of 1m RJ-48 to male DB9 RS-232/422/485 cable 1-port RS-232/422/485 to WLAN Data Gateway (802.11b/ (1 pcs of 1m RJ-48 to male DB9 RS-232/422/485 cable



ECH 6-5

Windows NT/2000/XP

Port mapping utility

Configuration utility

Port mapping utility

70 x 130 x 30 mm

DIN-rail, stack, wall

ABS+PC with solid mounting hardware

Virtual COMport

15 kV_{ESD}

RS-232/422/485 ADAM-4570W: 2 x RJ-48, ADAM-4571W: 1 x RJ-48 ADAM-4570W: 2, ADAM-4571W: 1 5, 6, 7, 8

ADAM-4579W ADAM-4577W

2-port RS-232/422/485 to 802.11b/q WLAN Universal Device Gateway

1-port RS-232/422/485 to 802.11b/g WLAN Universal Device Gateway



Features

- Supports 802.11g and 802.11b
- Supports Wireless LAN Ad-Hoc and Infrastructure modes
- Supports standard networking API: WinSock, Socket
- Provides multiple networking architectures: polling, event handling, peer-topee
- Supports several AT-styleCommands control mode
- 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-4577W and ADAM-4579W are universal serial device gateways that bring RS-232/422/485 to wireless Ethernet. They allow nearly any device with serial ports to connect and share an Wireless Ethernet network. ADAM-4577W and ADAM-4579W 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-4577W or ADAM-4579W, 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 Wireless Ethernet side. This data can be sent bilaterally. Thus, the ADAM-4577W and ADAM-4579W are especially suitable for remote monitoring environments such as security systems, factory automaton, SCADA, transportation and more.

Specifications

Ethernet Communications

 Compatibility IEEE 802.11g and 802.11b Speed 54/11 Mbps Connectors Wireless Serial Communications

Configuration

 Type 	RS-232/422/485
 Connectors 	ADAM-4577: 1 x RJ-48
	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 256 devices)
•	Easy-to-diagnose download & testing utility
	UDP testing utility
 Operation Modes 	TCP Server (polling)
-	TCP Client (event handling)

Pair connection (Peer to Peer)

Configuration utility

UDP command response mode (multi-host) AT-Style Commands control mode

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 B System: Power, status LED Indicators WLAN: Active, Quality Serial: TX/RX

Power

- Power Input Unregulated 10 ~ 30 V_{DC}
- Power Consumption ADAM-4577W: 2 W ADAM-4579W: 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 $0 \sim 95\%$ (non-condensing)

Ordering Information

 ADAM-4577W 	1-port RS-232/422/485 to 802.11 b/g WLAN Universal Device Gateway (1 pcs of 1m RJ-48 to male DB9 RS-232/422/485 cable included)
 ADAM-4579W 	2-port RS-232/422/485 to 802.11 b/g WLAN Universal Device Gateway (2 pcs of 1 m RJ-48 to male DB9 RS-232/422/485 cable included)
OPT1AOPT1D	1m RJ-48 to male DB9 RS-232/422/485 cable 30cm RJ-48 to male DB9 RS-232/422/485 cable

ADAM-4571/4571L

1-port Serial to Ethernet Data Gatewav



Features

- Supports RS-232/422/485 serial communication (ADAM-4571)
- Supports RS-232 serial communication (ADAM-4571L)
- 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 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-4571)

(€ FCC

Introduction

ADAM-4571 and ADAM-4571L are fast and cost effective data gateways between serial and Ethernet interfaces. The units also bring the advantages of remote management and data accessibility to RS-232/422/485 devices. The transmission speed of the units is up to 230 kbps, meeting the demands for high-speed data exchanges. In addition, you can use Windows utility to configure ADAM-4571 and ADAM-4571L without further programming. The units not only protect your current hardware investment but also ensure future network expandability. Since the protocol conversion is transparent, all your existing devices can be seamlessly integrated with an Ethernet network. Therefore, ADAM-4571 and ADAM-4571L can be used in security systems, factory automation, SCADA, transportation and more. ADAM-4571 and ADAM4571L link both your existing human-machine interface(HMI) PC and your RS-232/422/485 devices with Ethernet cables.

ADAM-4571 and ADAM-4571L come with a Windows configuration and port-mapping utility. The configuration tool can auto-detect all Ethernet Data Gateway devices on the local network, and let you adjust all settings. The port mapping utility helps you to setup up COM ports for Windows NT/2000/XP platform. This helps you configure all ports to meet vour needs.

Mechanics

Specifications

Ethernet Communication

- Enclosure ABS+PC with solid mounting hardware Mounting DIN-rail, Panel Mounting, Piggyback stack Dimensions (H x W x D) 70 x 130 x 30 mm Compatibility IEEE802.3. IEEE802.3u 10/100 Mbps Speed General Connectors 1 x RJ-45 Certification CE.FCC ClassA LED System: Power, Status Serial Communication Ethernet: Speed, Link, Tx/Rx Type RS-232/422/485 (ADAM-4571) Serial: Tx, Rx RS-232 (ADAM-4571L) - Connectors 1 x RJ-48 Power Ports 1 Power Input Unregulated 10 ~ 30 V_{DC} Data Bits 5,6,7,8 Power Consumption 4 W Stop Bits 1,1.5,2 Parity Bits Odd,even,none,space,mark Environment Baudrate 50 bps ~ 230 Kbps Operating Temp. 0~60°C(32~140°F) RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, RI, GND Data Signals Storage Temp. -20 ~ 80° C (-4 ~ 176° F) RS-422: TxD+, TxD-, RxD+, RxD-**Operating Humidity** 20% ~ 95% (non-condensing) RS-485: Data+, Data-, GND Storage Humidity 0% ~ 95% (non-condensing) Protection Surge Protection **Ordering Information** 15 k VEDS ADAM-4571 1-port RS-232/422/485 to Ethernet Data Gateway Software Drivers Supported Windows NT/2000/XP included) Utility Software Auto-detecting configuration utility (up to 128 devices) ADAM-4571L 1-port RS-232 to Ethernet Data Gateway Port mapping utility Operation Mode Virtual COMport cable included) Configuration Configuration utility

- - (1 pc of 1m RJ-48 to male DB9 RS-232/422/485 cable (2 pcs of 1 m RJ-48 to male DB9 RS-232/422/485 OPT1A 1m RJ-48 to male DB9 RS-232/422/485 cable OPT1D 30cm RJ-48 to male DB9 RS-232/422/485 cable
- .

Online Download www.advantech.com/products



Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800)

Port mapping utility

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)

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	

- Connectors
- Ports
- Data Bits
- Stop BitsParity Bits
- Baud Rate
- Data Signals
- Data Siyilats
 - RS-422: TxD+, TxD-, RxD+, RxD-, GND RS-485: Data+, Data-, GND

Protection

Surge Protection

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

RS-232/422/485 (ADAM-4570)

Odd, even, none, space, mark

RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, RI, GND

50 bps ~ 230 kbps

RS-232 (ADAM-4570L)

2 x RJ-48

5, 6, 7, 8

1.1.5.2

15 kV_{ESD}

2

Mechanics

- Dimensions (H x W x D) 70 x 130 x 30 mm
 - Enclosure ABS+PC with solid mounting hardware
- Mounting

General

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

DIN-rail. stack. wall

Power

- Power Input
 Unregulated 10 to 30 V_{DC}
- Power Consumption 4 W

Environment

- Operating Temperature $0 \sim 60^{\circ} \text{ C} (32 \sim 140^{\circ} \text{ F})$
- 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

ADAM-4577 ADAM-4579

1-port Universal Serial Device Gateway





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

RS-232/422/485

ADAM-4577: 1

ADAM-4579: 2

5, 6, 7, and 8

1, 1.5, and 2

30 bps ~ 230 kbps

ADAM-4577: 1 x DB-9 Male

Odd, even, none, space, mark

RS-485: Data+, Data-, GND

RS-422: TxD+, TxD-, RxD+, RxD-, GND

RS-232: TxD, RxD, CTS, RTS, DTR, DSR, DCD, RI, GND

ADAM-4579: 2 x RJ-48

Serial Communications

- Type
- Connectors
- Ports
- Data Bits
- Stop Bits
- Parity Bits
- **Baud Rate**
- Data Signals
- **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 ABS+PC with solid mounting hardware
- Enclosure
- Mounting

General

 Certifications LED Indicators

CE. FCC class A System: Power, status Network: Tx/Rx, Link, Speed (10/100 Mbps), Serial: TX/RX

Power

- Operating Temperature 0 ~ 60° C (32 ~ 140° F)
- Storage Temperature -20 ~ 80° C (-4 ~ 176° F)

DIN-rail, stack, wall

Unregulated 10 ~ 30 V_{DC}

ADAM-4577: 2 W

ADAM-4579: 4 W

- **Operating Humidity** 20~95% (non-condensing)
- 0 ~ 95% (non-condensing) Storage Humidity

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

PAC & Software

AD\ANTECH

6-9 enengineering.com

- Power Input
- Power Consumption

Environment

ADAM-4572

1-port Modbus® to Ethernet Data Gateway



(€ FCC

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 guickly 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.

Specifications

Ethernet Communications

 Compatibility 	IEEE 802.3, IEEE 802.3u	 Dimensions (H x W x D) 	70 x 130 x 30 mm
 Speed 	10/100 Mbps	 Enclosure 	ABS+PC with solid mounting hardware
 Connectors 	1 x RJ-45	 Mounting 	DIN-rail, stack, wall
Serial Communications	5	General	
• Туре	RS-232/422/485	 Certifications 	CE, FCC class A
 Connectors 	Screw terminal	LED Indicators	Network: Tx/Rx, Link, Speed (10/100 Mbps)
 Ports 	1		Serial: Tx/Rx
 Data Bits 	7, 8		System: Power, Status
 Stop Bits 	1, 2	Power	
 Baud Rate 	300 bps ~ 115.2 kbps	Power Input	Unregulated 10 ~ 30 V _{DC}
 Data Signals 	RS-232: TxD, RxD, GND	 Power Consumption 	3 W
	RS-422: TxD+, TxD-, RxD+, RxD-, GND		
	RS-485: Data+,Data-, GND	Environment	
Protection		 Operating Temperature 	0 ~ 60° C (32 ~ 140°F)
	15 147	 Storing Temperature 	-20 ~ 80° C (-4 ~ 176°F)
 Surge Protection 	15 kV _{ESD}	 Operating Humidity 	20 ~ 95% (non-condensing)
Software		 Storing Humidity 	0~95% (non-condensing)
 Drivers Supported 	Windows [®] 98/NT/2000/XP		
 Utility Software 	Auto-detecting configuration utility (up to 128 devices) Device setting: name, description, serial port	Ordering Information	
		ADAM-4572	1-Port Modbus to Ethernet Data Gateway

Mechanics

Features

•

- Supports 10/100 Mbps communication speeds Allows up to 8 clients to access field data simultaneously

· Provides auto-searching device ID Windows utility

· Easy mounting on DIN-rail and wall, and can also be stacked - Supports Modbus/ASCII, Modbus/RTU Protocol to control devices

Surge protection for RS-485 and power line Automatic RS-485 data flow control

 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

ADAM-4572

1-Port Modbus to Ethernet Data Gateway

 Operation Mode Configuration

Configuration utility

Modbus/TCP, Modbus/RTU, Modbus/ASCII

EDG-4504

4-port RS-232/422/485 to Ethernet Data Gateway



Features

- 4 x RS-232/422/485 serial communication devices
- Automatic network connection recovery
- Auto-detects 10/100 Mbps Ethernet interface
- Supports an advanced security mechanism to avoid unauthorized access
- Tx/Rx LEDs for all ports to monitor data transmission
- Convenient and simple installation wizard
- Simple setup and configuration
- Auto-reconnection
- Remote updating firmware
- Automatic RS-485 data flow control

Introduction

The EDG-4504 is an industrial-grade, network-based, serial device server for connecting four RS-232/422/485 devices, such as CNCs, PLCs, scales, and scanners, directly to a TCP/IP network (Ethernet or Internet). Compared to similar devices on the market, it has a lower cost, great performance, and the most advanced features. Both 10 Mbps and 100 Mbps Ethernet connections are supported, providing higher bandwidth, lower traffic impact, and more layout flexibility.

You can use the Windows utility to configure EDG-4504 without programming. This not only protects your current hardware investment but also ensures future network expandability. Since the protocol conversion is transparent, all your existing devices can be seamlessly integrated with the Ethernet LAN network. Therefore, EDG-4504 can be used in security system, factory automation, SCADA, transportation and more.

Specifications

Ethernet Communications

- Compatibility IEEE802.3, IEEE802.3u
- SpeedConnectors
- 10/100 Mbps 1 x RJ-45

4

RS-232/422/485

None, even, odd, space, mask

RS-232: TxD.RxD.CTS.RTS.DTR.DSR.DCD.RI.GND

50 bps ~ 230.4 kbps

4 x DB9 Male

5.6.7.8

1.1.5.2

Serial Communications

- Type
- Connectors
- Ports
- Data Bits
- Stop Bits
- Parity BitsBaud Rate
- Data Signals
 - RS-422: TxD+,TxD-,RxD+,RxD-,GND RS-485: Data+,Data-,GND

 $15 \text{ kV}_{\text{ESD}}$

- Protection
- Surge Protection

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) 36 x 188 x 120 mm
- Enclosure
 Aluminum chassis
- Mounting DIN-rail, wall

General

CertificationsLED Indicators

CE, FCC class A System: status Network: Tx/Rx, Link, Speed (10/100 Mbps), Serial: Tx/Rx

Unregulated 10 ~ 30 V_{DC}

Power

Power Input
Power Consumption

Environment

• Operating Temperature 0 ~ 55° C (32 ~ 131° F)

4.5 W

- Storage Temperature $-20 \sim 80^{\circ} \text{ C} (-4 \sim 176^{\circ} \text{ F})$
- Operating Humidity 20 ~ 95% (non-condensing)
- Storage Humidity 0 ~ 95% (non-condensing)

Ordering Information

- EDG-4504
- 4-port RS-232/422/485 to Ethernet Data Gateway
- ICOM

AD\ANTECH

16-11

PAC & Software

A-nort BS-232/422/485 to

EDG-4508(R)+ EDG-4516(R)+

8-port RS-232/422/485 to Ethernet **Data Gateway with Front/Rear Wiring**

16-port RS-232/422/485 to Ethernet **Data Gateway with Front/Rear Wiring**



Features

- RS-232/422/485 Serial Communication, up to 8 or 16 port
- Supports 10/100Base-T Ethernet network
- Supports Baud rate up to 230.4 kbps
- Provides Virtual COMport, TCP/IP and UDP operation modes
- 4 x DI/O for alarm/event control
- Provides rich configuration ways: Serial Console, Windows utility, and Web
- Supports an advanced security mechanism to avoid unauthorized access
- Auto connection recovery
- Remote download firmware
- Easy-managing Port Mapping Utility and configuration utility for Windows NT/2000/XP

Port mapping utility Virtual COM port

Configuration utility

Port mapping utility

SECC Chassis

TCP/UDP server data mode

TCP/UDP client data mode,

Web interface configuration

AT command like control mode

Auto-detecting configuration utility (up to 256 devices)

Console serial command line interface configuration

- Buzzer for easy locate
- Rack mounted
- Rear wiring (EDG-4508R+/16R+)
- Automatic RS-485 data flow control

Introduction

EDG-4508 and EDG-4516 are industrial-grade network-based serial device servers for connecting up to 8 or 16 serial RS-232/422/485 device, such as CNCs, PLCs, scales and scanners, directly to Ethernet network. Compared with similar product on the market, EDG-4508 and EDG-4516 are low cost, but with high performance and reliability.

EDG-4508 and EDG-4516 provide 8 and 16 ports of serial communication. For many applications, you could also use EDG-4508 and EDG-4516 to remote monitor and control your serial device. Furthermore, EDG-4508 and EDG-4516 also build-in 4 channel digital inputs and 4 channel digital outputs for alarm or event control. EDG-4508 and EDG-4516 offer different ways to configured through windows utility, COM port mapping utility or serial interface console, these configuration methods make it easy manage many EDG-4508 and EDG-4516 or serial devices on your network.

Specifications

Ethernet Communication

 Compatibility IEEE802.3, IEEE802.3u

- Speed
- 10/100Mbps 1 x RJ-45
- Connectors

Serial Communication

oonan oonnantoation	
• Туре	RS-232/422/485
 Connectors 	8 x RJ-48(EDG-4508) 16 x RJ-48(EDG-4516)
 Ports 	8 (for EDG-4508) 16 (for EDG-4516)
 Data Bits 	5,6,7,8
 Stop Bits 	1,1.5,2
 Parity Bits 	Odd,even,none,space,mark
 Baudrate 	50bps ~ 230.4 kbps
 Data Signals 	TxD, RxD, CTS, RTS, DTR, DSR, DCD, RI, GND (RS-232) TxD+, TxD-, RxD+, RxD-, GND (RS-422) Data+, Data-, GND (RS-485)
 Digital I/O 	4DI & 4DO Digital Input: Logic level 0 : 0 ~ 4.2 V , close to GND Logic level 1 : 4.4 ~5 V , open Digital Output: Open collector up to 30 V, 200 mA Max load
Protection Serial Protection 	15 KV _{ESD}
Software	

Mechanics

 Enclosure Mounting

Utility Software

Operation Mode

Configuration

Rack Dimensions (H x W x D) 44 x 442 x 190 mm

General

 Certification CE,FCC ClassA LED Power, Status Ethernet: Speed, Link Serial: Tx. Rx

Power

 Power Input 90 ~ 260 V_{AC}, 47 ~ 63 Hz Power Consumption 10 W (EDG-4516) 8 W (EDG-4508)

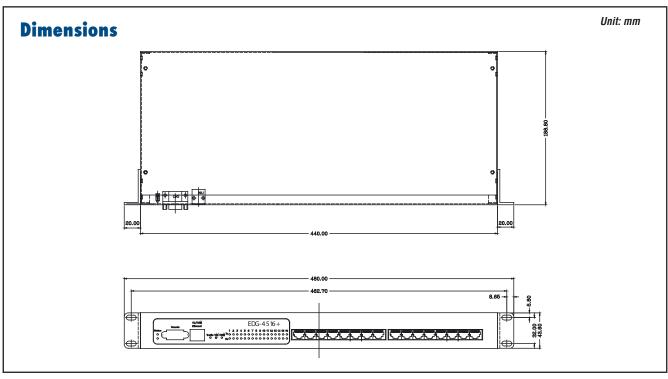
Environment

 Operating Temp. 0~55° C (32~131° F) Storage Temp. -20 ~ 80° C (-4 ~ 176° F) Operating Humidity 20% ~ 95% (non-condensing) Storage Humidity 0% ~ 95% (non-condensing) Drivers Supported Windows® NT/2000/XP

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Courtesy of Steven Engl

EDG-4508(R)+ EDG-4516(R)+



Ordering Information

- EDG-4508+
- 8-port RS-232/422/485 to Ethernet Data Gateway with front wiring 16-port RS-232/422/485 to Ethernet Data Gateway with EDG-4516+
- front wiring EDG-4508R+ 8-port RS-232/422/485 to Ethernet Data Gateway with
- rear wiring EDG-4516R+
- 16-port RS-232/422/485 to Ethernet Data Gateway with rear wiring

*all items include 1 PC 30cm RJ-48 to male DB9 RS-232/422/485 cable

- OPT1A 1 m RJ-48 to male DB9 RS-232/422/485 cable
- OPT1D 30 cm RJ-48 to male DB9 RS-232/422/485 cable
- OPT1G 1 m RJ-48 to male DB25 RS-232/422/485 cable
- OPT1H 1 m RJ-48 to female DB25 RS-232/422/485 cable

PAC & Software Ethernet I/O

ADAM-4561 ADAM-4562

1-port Isolated USB to RS-232/422/485 Converter

1-port Isolated USB to RS-232 Converter



Features

- Full compliance with USB V1.1 specifications
- RS-232/422/485 port supported (only ADAM-4561)
- Transmission speed up to 115.2 kbps
- Isolation protection 3000 V_{DC} provided .
- Automatic RS-485 data flow control
- No external power supply necessary; the hub derives its power from the USB port
- Plug & Play installation
- No additional IRQs or I/O ports required
- Hot swap function supported .

Introduction

ADAM-4561/4562 allows PC users to connect a serial device to a system that use a USB interface. To attach the ADAM-4561/4562 to a PC, you don't need to open the chassis or power down your PC. Instantly get one or two extra high-speed RS-232/422/485 ports. The power is derived from the USB port, so there are no power adapters to deal with. This makes the ADAM-4561/4562 especially suitable for modems, printers, POS systems and industrial control devices.

Compliant with USB V1.1, ADAM-4561/4562 features several powerful functions such as high-speed 115.2 kbps transmission, support for various operating systems, independent RS-232/422/485 ports and more. By simply plugging in a USB hub, ADAM-4561/4562 eliminates the configuration issues associated with high-priced, older card solutions. You only have to install the drivers, no need to set cards slots, IRQ addresses, DMA channels, or device addresses. This reduces programming effort.

Specifications

General

- Certifications
- Connectors
- Enclosure
- Mounting

Power Consumption

ADAM-4561: 270 mA @ 5 V (Typical) 300 mA @ 5 V (Max.) ADAM-4562: 155 mA @ 5 V (Typical) 220 mA @ 5 V (Max.)

ADAM-4561: Odd, even, none

ADAM-4561: 3-wire(Tx, Rx, GND)

DIN 35 rail, stack, wall

1 x USB Type B (Type A to Type B cable provided)

Parity error, frame error, serial break (ADAM-4562)

ADAM-4562: Odd, even, mark, space, none

1 x Plug-in screw terminal (#14 ~ 22 AWG)

CF FCC

ABS+PS

5.6.7.8

15 ft (4.6 m)

ADAM-4562: 9-wire

Communications

- Data Bits
- Error Detection
- Max. Distance
- Parity Bits
- RS-232 Signals
- Stop Bits
- 1, 1.5, 2 Transmission Speed ADAM-4561: 50 bps to 115.2 kbps ADAM-4562: 75 bps to 115.2 kbps

- Protection
- Isolation Protection
- Surge Protection

Software

- Driver Support Windows® 98/2000/ME/XPEnvironment
 - **Operating Temperature** 0 ~ 70° C (32 ~ 158° F)
- Storage Temperature -25 ~ 80° C (-13 ~ 176° F)
- **Operating Humidity** 20 ~ 95% (non-condensing)
- Storage Humidity 5 ~ 95% (non-condensing)

Ordering Information

- ADAM-4561
- 1-port Isolated USB to RS-232/422/485 Converter

ADAM-4561: 3,000 V_{DC} (RS-232/422/485)

ADAM-4562: 2,500 VDC

3,000 V_{DC} (RS-485)

- ADAM-4562
- 1-port Isolated USB to RS-232 Converter

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USB-4602B USB-4602BM

2-port RS-232 to USB Converter w/Surge **Protection** 2-port RS-232/422/485 to USB Converter w/Surge Protection



Features

- Full compliance with USB V1.1 and V2.0 specifications.
- RS-232/422/485 port supported
- Transmission speed up to 921.6 kbps
- Automatic RS-485 data flow control .
- No external power supply necessary; the hub derives its power from the USB port
- Plug & Play installation
- No additional IRQs or I/O ports required
- Hot swap function supported

Introduction

USB-4602B and USB-4602BM USB to serial converters are the easiest, most reliable way to add serial ports to a PC. To attach the USB-4602B/4602BM to a PC, you don't need to open the chassis or power down your PC. Instantly get extra high-speed RS-232/422/485 ports. The devices are powered by the USB connection, so there are no power adapters to deal with. This makes the USB-4602 series especially suitable for printers, POS system, and industrial control devices.

Support high speed USB 2.0 up to 480M bps, USB-4602 series support for transmission speeds up to 921.6 kbps, which meets the demand for high-speed data exchange. USB-4602 series also gestures several powerful functions such as independent RS-232/422/485 ports, support for various operating systems and more. By simply plugging in a USB hub, USB-4602 series eliminate the configuration issues associated with high-priced, older card solution. You only have install the driver, no need to set cards slots, IRQ addresses, or device addresses. This reduces programming effort.

USB 2.0, now standard on virtually all new PCs, can connect up to 127 devices at data rates up to 480Mbps. The significant advantage over earlier bus means that your serial connection can grow with your requirement easily and conveniently.

Specifications

General

- Certifications
- Connectors
- Enclosure
- USB Cable Mounting
- Insert
- Power Input
- Power Consumption

Communications

Data Bits 5, 6, 7, 8

CE, FCC

2 x DB9

ABS+PS

Max. 15ft (4.6 m)

DIN 35 rail, stack, wall

100 mA @ 5 V (Typical)

150 mA @ 5 V (Max.)

1 x USB Type B (Type A to Type B cable provided)

10 to 48 V_{DC} (external) or 5 V_{DC} (Bus Power)

- Parity Bits Odd,even,none,space,mark 1, 1.5, 2
- Stop Bits
- Transmission Speed up to 921.6 kbps

Protection

 Surge Protection 3,000 V_{DC}

Software

Driver Support

Environment

- Operating Temperature 0 ~ 55° C (32 ~ 158° F)
- Storage Temperature -25 ~ 80° C (-13 ~ 176° F)
- Operating Humidity 20~95% (non-condensing)
- Storage Humidity 5 ~ 95% (non-condensing)

Ordering Information

- USB-4602B USB-4602BM
- 2-port RS-232 to USB Converter w/Surge Protection 2-port RS-232/422/485 to USB Converter w/Surge Protection

Windows® 2000/XP/2003

Online Download www.advantech.com/products

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AD\ANTECH 16-15

USB-4604B USB-4604BM

4-port RS-232 to USB Converter w/Surge **Protection** 4-port RS-232/422/485 to USB Converter w/Surge Protection



Features

- Full compliance with USB V1.1 and V2.0 specifications.
- RS-232/422/485 port supported
- Transmission speed up to 921.6 kbps
- Automatic RS-485 data flow control .
- No external power supply necessary; the hub derives its power from the USB port
- Plug & Play installation
- No additional IRQs or I/O ports required
- Hot swap function supported

Introduction

USB-4604 series allows PC users to connect a serial device to a system that use a USB interface. To attach the USB-4604B/USB-4604BM to a PC, you don't need to open the chassis or power down your PC. Instantly get extra high-speed RS-232/422/485 ports. The power is derived from the USB port, so there are no power adapters to deal with. This makes the USB-4602/4604 especially suitable for modems, printers, POS systems and industrial control devices.

Support USB2.0 high speed, USB-4604B/USB-4604BM features several powerful functions such as high-speed 921.6 kbps transmission, support for various operating systems, independent RS-232/422/485 ports and more. By simply plugging in a USB hub, USB-4604B and USB-4604BM eliminates the configuration issues associated with high-priced. older card solutions. You only have to install the drivers, no need to set cards slots, IRQ addresses, DMA channels, or device addresses. This reduces programming effort.

USB2.0, now standard on virtually all new PCs, offers significant advantages over earlier bus types. A single USB interface can connect up to 127 devices at data rates up to 480 Mbps. That kind of easy and convenient connectivity means that your network can grow with your requirements.

Specifications

General

- Certifications
- Connectors
- Enclosure
- USB Cable
- Mounting
- Insert
- Power Input
- Power Consumption

Communications

Data Bits 5, 6, 7, 8

CE, FCC

4 x DB9

ABS+PS

Max. 15ft (4.6 m)

DIN 35 rail, stack, wall

130 mA @ 5 V (Typical)

200 mA @ 5 V (Max.)

1 x USB Type B (Type A to Type B cable provided)

10 to 48 V_{DC} (external) or 5 V_{DC} (Bus Power)

- Parity Bits Odd,even,none,space,mark 1, 1.5, 2
- Stop Bits
- Transmission Speed up to 921.6 kbps

Protection

 Surge Protection 3,000 V_{DC}

Software

Driver Support

Environment

Operating Temperature 0 ~ 55° C (32 ~ 158° F)

Windows® 2000/XP/2003

- Storage Temperature -25 ~ 80° C (-13 ~ 176° F)
- Operating Humidity 20~95% (non-condensing)
- Storage Humidity 5 ~ 95% (non-condensing)

Ordering Information

- USB-4604B USB-4604BM
- 4-port RS-232 to USB Converter w/Surge Protection 4-port RS-232/422/485 to USB Converter w/Surge Protection