Simply Better Connections

# UC2324

## USB-to-Serial RS232 Hub
## User Manual

# Compliance Statements

**FEDERAL COMMUNICATIONS COMMISSION INTERFERENCE STATEMENT**

This equipment has been tested and found to comply with the limits for a Class B digital service, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.



**KCC Statement**

유선 제품용 / B 급 기기 ( 가정용 방송 통신 기기 )
이 기기는 가정용 (B 급 ) 전자파적합기기로서 주로 가정에서 사용하는 것을 목적으로 하며 , 모든 지역에서 사용할 수 있습니다 .

**Industry Canada Statement**

This Class B digital apparatus complies with Canadian ICES-003.

CAN ICES-003 (B) / NMB-003 (B)

**RoHS**

This product is RoHS compliant.

## Online Registration

| | |
|---|---|
| International | http://support.aten.com |

## Telephone Support

| | |
|---|---|
| International | 886-2-8692-6959 |
| China | 86-400-810-0-810 |
| Japan | 81-3-5615-5811 |
| Korea | 82-2-467-6789 |
| North America | 1-888-999-ATEN ext 4988<br>1-949-428-1111 |

## Technical Support

- For international online technical support – including troubleshooting, documentation, and software updates: **http://support.aten.com**
- For North American technical support:

| | | |
|---|---|---|
| Email Support | | support@aten-usa.com |
| Online Technical Support | Troubleshooting<br>Documentation<br>Software Updates | http://support.aten.com |
| Telephone Support | | 1-888-999-ATEN ext 4988 |

## Package Contents

The ATEN USB-to-Serial RS-232 Hub package contains the following items:

- 1 UC2324 USB-to-Serial RS-232 Hub
- 1 USB cable
- 1 user instructions

Check to make sure that all the components are present and that nothing got damaged in shipping. If you encounter a problem, contact your dealer.

Read this manual thoroughly and follow the installation and operation procedures carefully to prevent any damage to the unit, and/or any of the devices connected to it.

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***** Features may have been added to the ATEN USB-to-Serial RS-232 Hub since this manual was printed. Please visit our website to download the most up-to-date version of the manual.

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# Overview

The ATEN USB-to-Serial RS-232 Hub provides an external plug-and-play RS-232 serial connection for computers, notebooks, laptops, and hand-held computing devices that support the USB specification. It comes with 4 standard DB-9 male connectors for peripherals[1] to plug into, and a USB cable for connecting to the computer's USB port, or to a USB hub.

The ATEN USB-to-Serial RS-232 Hub provides mobile phones, PDAs, digital cameras, modems and ISDN terminal adapters with high quality serial connections at a data transfer rate of up to 921.6[2] Kbps. It makes the USB interface transparent to the peripherals, allowing them to easily interface with the USB, eliminating the setup hassle found with traditional serial port connections. As a USB specification compliant device, the ATEN USB-to-Serial RS-232 Hub also supports energy-saving suspend and resume operations.

The ATEN USB-to-Serial RS-232 Hub provides a quick, simple, and cost-effective solution and is ideal for various kinds of communication and automation applications.

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**Note:** 1. The ATEN USB to Serial RS-232 Hub dose not support devices such as serial mice that require an IRQ number or I/O address.

2. For products manufactured before 2003, the data transfer rate (baud rate) is limited to 115.2 Kbps.

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## Features

- Easy way to add 4 RS-232 serial ports
- Fully compliant with USB 1.1; USB 2.0 compatible
- Supports RS-232 serial interface
- Supports automatic handshake mode
- Up to 921.6* Kbps data transfer rate for each serial port
- Dual data buffers for each upstream and downstream data transfer
- No IRQ, DMA, I/O address resources required
- Supports hot-swapping and plug-and-play
- Built-in 16KV ESD protection
- Supports both bus power and external power
- Works with cellular phones, PDAs, digital cameras, modems and ISDN terminal adapters
- OS support - Windows 2000 / 2003 / XP / NT

**Note:** For products manufactured before 2003, the data transfer rate (baud rate) is limited to 115.2 Kbps.

| | |
|---|---|
| Hardware | CE, FCC (Class B) |
| Driver | Microsoft WHQL |

# System Requirements

## Computers

The driver must be installed on the host computer to be able to communicate with the connected USB peripheral devices.

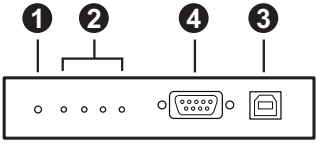
## Operating Systems

Supported operating systems are shown in the table, below:

| OS | Version |
|---|---|
| Windows | 2000 or above |

# USB-to-Serial RS-232 Hub Front View

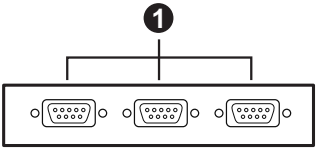
UC2324



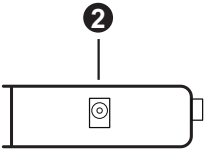

| No. | Component | Description |
|---|---|---|
| 1 | power LED | Lights to indicate that the USB-to-Serial RS-232 hub is receiving power and is up and running. |
| 2 | port link LED | Lights to indicate that there is a working RS-232 connection to the corresponding port. |
| 3 | USB Type-B port | The USB cable from your computer or USB hub plugs in here. |
| 4 | RS-232 serial port | Your peripheral devices, such as digital cameras, scanners, PDAs, etc., plug in here. |

# USB-to-Serial RS-232 Hub Rear View

UC2324




Side View

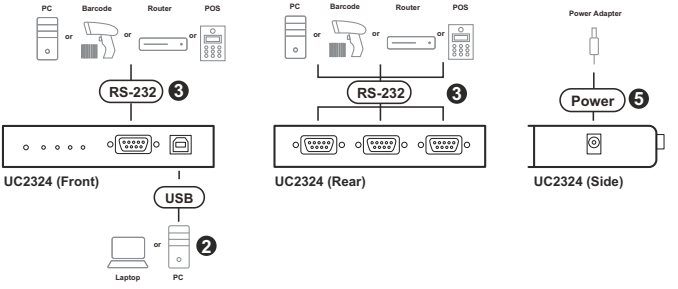



| No. | Component | Description |
|---|---|---|
| 1 | RS-232 serial ports | Your peripheral devices, such as modems, scanners, PDAs, etc., plug in here. |
| 2 | power jack | The power adapter cable plugs in here. **Note:** The USB-to-Serial RS-232 hub is bus-powered, so the use of a power adapter is optional. |

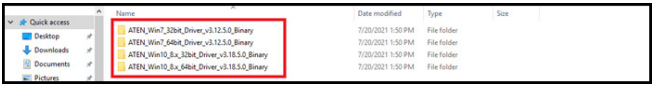
# Installation

Make sure that all devices you will be installing are properly grounded.

Follow the steps below to connect the USB-to-Serial RS-232 Hub.




1. Install drivers.
   a) Download the most up-to-date driver from our ATEN product web page and unzip the downloaded file.
   b) Select an appropriate operating system and system type that your computer supports.




   c) Double-click **MSSetup_ATEN**.
   d) In the pop-up dialog box, click **Install** to install the driver for the USB-to-Serial RS-232 Hub. To cancel the installation, click **Exit**.
   e) When the installation has completed, a dialog box appears.

f) Click Exit to close the wizard, You have successfully installed the driver.

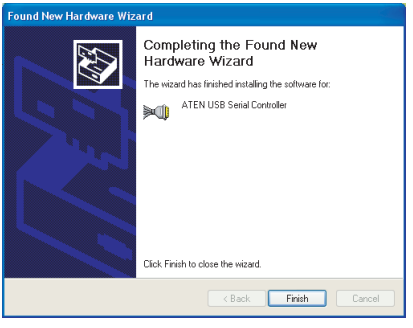
2. Connecting the USB-to-Serial RS-232 Hub.

a) Connect the USB-to-Serial RS-232 Hub to a USB port on your computer using the USB cable provided. The New Hardware Wizard appears.

b) Select **No, not this time**, and then click **Next** to continue.

c) In the pop-up dialog box, leave the default choice (Install from the software automatically), and then click **Next** to continue.

d) When the installation has completed, the following dialog box appears. Click Finish to close the wizard. You have successfully installed the USB-to-Serial RS-232 Hub.



3. Connecting your peripherals to the USB-to-Serial RS-232 Hub and follow the installation Wizard's on-screen instructions to complete the installation.

**Note:**

- Under Windows 2000 operating systems, if you connect a modem, you must specify the modem as a Standard modem.
- This procedure only occurs the first time you connect the peripheral. If your peripheral was previously connected and configured for the COM port, after you perform the adapter installation and click **Finish**, the driver will connect it and install it automatically. However, some peripheral devices, such as older PDAs, require that you install the software for the peripheral device before it will work properly.

4. Turn on the connected devices.
5. (Optional) The USB-to-Serial RS-232 Hub is bus-powered. Optionally power the USB-to-Serial RS-232 Hub with a power adapter.

## Uninstalling the Drivers

1. From the downloaded file, select an appropriate operating system and system type that your computer supports.




2. Double-click **ATEN_MSUninst**.
3. In the pop-up dialog box, click **OK** to begin the uninstall process.
4. Click **Exit**. You have successfully uninstalled the driver.

# Specifications

| Function | | UC2324 |
|---|---|---|
| Device Connections | | 4 |
| Connectors | USB | 1 x USB Type B Female (White) |
| | Serial | 4 x DB-9 Male (Black) |
| | Power | 1 x DC Jack (Black) |
| LEDs | Port | 4 (Green) |
| | Power | 1 (Orange) |
| Data Transfer Rate | | 921.6* Kbps (max.)<br>**Note:** For products manufactured before 2003, the data transfer rate (baud rate) is limited to 115.2 Kbps. |
| FIFO | | 16 byte Hardware FIFO |
| USB Specification | | USB 1.1 Compliant; USB 2.0 Compatible |
| RS-422/RS-485 Selection | | N/A |
| RS-232 Signal | | TxD, RXD, RTS, CTS, DTR, DSR, DCD, RI, GND |
| RS-422 Signal | | N/A |
| RS-485 Signal | | N/A |
| Data Bit | | 5, 6, 7, 8 |
| Stop Bit | | 1, 1.5, 2 |
| Power Mode | | Bus Powered; use of Power Adapter is optional |

| | | |
|---|---|---|
| Power Consumption | | DC5V:0.4W:2BTU/h |
| | | **Note:**<br>◆ The measurement in Watts indicates the typical power consumption of the device with no external loading.<br>◆ The measurement in BTU/h indicates the power consumption of the device when it is fully loaded. |
| Environment | Operating Temp. | 0–50ºC |
| | Storage Temp. | -20–60ºC |
| | Humidity | 0–80% RH, Non-condensing |
| Physical Properties | Housing | Metal |
| | Weight | 0.32 kg (0.7 lb) |
| | Dimensions (L x W x H) | 12.50 x 8.00 x 2.50 cm<br>(4.92 x 3.15 x 0.98 in) |

## DB-9 Pin Assignments

| Pin | RS-232 |
|---|---|
| 1 | DCD |
| 2 | RXD |
| 3 | TXD |
| 4 | DTR |
| 5 | GND |
| 6 | DSR |
| 7 | RTS |
| 8 | CTS |
| 9 | RI |

## Troubleshooting

| Problem | Possible Cause | Action |
|---|---|---|
| Cannot install serial device. | Advanced settings need to be configured. | Contact ATEN Technical Support for advice about your specific serial device. |

# ATEN Warranty Policy

The warranty policy may vary by product category and region of purchase. For details, please visit ATEN's official website, select your purchase counties/regions and then go to the Support Center, or contact your local ATEN sales representative for further assistance.

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