



USB to RS-232 Converter

User Manual



Contact Information

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(outside U.S. call 724-746-5500)
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Federal Communications Commission Statement

This equipment has been tested and found to comply with Part 15 of the FCC sRules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference
- (2) This device must accept any interference received. Including interference that may cause undesired operation.

CE

This equipment is in compliance with the requirements of the following regulations:

EN 55 022: CLASS B

Safety Instructions

Always read the safety instructions carefully.

Keep this User's Manual for future reference.

Keep this equipment away from humidity.

If any of the following situations happens, get the equipment checked by a service technician:

- The equipment has been exposed to moisture.
- The equipment has been dropped and damaged.
- The equipment has obvious sign of breakage.
- The equipment has not been working well or you cannot get it work according to the User's Manual.

Disclaimer:

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Instrucciones de Seguridad (Normas Oficiales Mexicanas Electrical Safety Statement)

1. Todas las instrucciones de seguridad y operación deberán ser leídas antes de que el aparato eléctrico sea operado.
2. Las instrucciones de seguridad y operación deberán ser guardadas para referencia futura.
3. Todas las advertencias en el aparato eléctrico y en sus instrucciones de operación deben ser respetadas.
4. Todas las instrucciones de operación y uso deben ser seguidas.
5. El aparato eléctrico no deberá ser usado cerca del agua—por ejemplo, cerca de la tina de baño, lavabo, sótano mojado o cerca de una alberca, etc.
6. El aparato eléctrico debe ser usado únicamente con carritos o pedestales que sean recomendados por el fabricante.
7. El aparato eléctrico debe ser montado a la pared o al techo sólo como sea recomendado por el fabricante.
8. Servicio—El usuario no debe intentar dar servicio al equipo eléctrico más allá de lo descrito en las instrucciones de operación. Todo otro servicio deberá ser referido a personal de servicio calificado.
9. El aparato eléctrico debe ser situado de tal manera que su posición no interfiera su uso. La colocación del aparato eléctrico sobre una cama, sofá, alfombra o superficie similar puede bloquear la ventilación, no se debe colocar en libreros o gabinetes que impidan el flujo de aire por los orificios de ventilación.
10. El equipo eléctrico debe ser situado fuera del alcance de fuentes de calor como radiadores, registros de calor, estufas u otros aparatos (incluyendo amplificadores) que producen calor.
11. El aparato eléctrico deberá ser conectado a una fuente de poder sólo del tipo descrito en el instructivo de operación, o como se indique en el aparato.
12. Precaución debe ser tomada de tal manera que la tierra física y la polarización del equipo no sea eliminada.
13. Los cables de la fuente de poder deben ser guiados de tal manera que no sean pisados ni pellizcados por objetos colocados sobre o contra ellos, poniendo particular atención a los contactos y receptáculos donde salen del aparato.
14. El equipo eléctrico debe ser limpiado únicamente de acuerdo a las recomendaciones del fabricante.
15. En caso de existir, una antena externa deberá ser localizada lejos de las líneas de energía.
16. El cable de corriente deberá ser desconectado del cuando el equipo no sea usado por un largo periodo de tiempo.
17. Cuidado debe ser tomado de tal manera que objetos líquidos no sean derramados sobre la cubierta u orificios de ventilación.
18. Servicio por personal calificado deberá ser provisto cuando:
 - A: El cable de poder o el contacto ha sido dañado; u
 - B: Objetos han caído o líquido ha sido derramado dentro del aparato; o
 - C: El aparato ha sido expuesto a la lluvia; o
 - D: El aparato parece no operar normalmente o muestra un cambio en su desempeño; o
 - E: El aparato ha sido tirado o su cubierta ha sido dañada.

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1. Specifications

Data Transfer Rate	500 kbps
Function	USB 1.1 Serial Converter operates as a bridge between one USB port and standard RS-232 serial port
Connectors	(1) USB 1.1 Type A, (1) DB9 RS-232 serial
Power	Bus-powered
Operating System	Supports Windows, Mac 8.6 and higher, and Linux operating systems.
Accessories	Driver CD

2. Overview

2.1 Introduction

The USB to RS-232 Converter (IC199A-R3) operates as a bridge between one USB port and a standard RS-232 serial port. Connect the cable to a PC or hub's USB port, then link the other end of the cable to an RS-232 device, such as a PDA, scanner, printer, etc.

2.2 Features

- Complies with the USB 1.1 specification.
- Supports an RS-232 serial Interface.
- Transfers data at 500 kbps.
- Supports USB suspend condition.
- Plug & Play.
- USB host device drivers are available.
- Draws its power from USB connection—no extra power adapter required.
- Works with Windows, Mac 8.6 and higher, and Linux operating systems. FTDI CDM 2.212.14 drivers included on the CD provide both D2XX and VCP functionality through a single driver package on PCs running the following Windows operating systems:
 - Windows 10
 - Windows 10 x64
 - Windows 8.1
 - Windows 8.1 x 64
 - Windows Server 2008 R2
 - Windows 7
 - Windows 7 x64
 - Windows Server 2008
 - Windows Server 2008 x 64
 - Windows Vista
 - Windows Vista x64
 - Windows Server 2003
 - Windows Server 2003 x64
 - Windows XP
 - Windows XP x64

NOTE: For Linux drivers, contact Black Box Technical Support at 877-877-2269 or info@blackbox.com

2.3 What's Included

Your package should contain the following items. If anything is missing or damaged, contact Black Box Technical Support at 877-877-2269 or info@blackbox.com

- USB to RS-232 Converter
- (1) driver CD

2.4 System Requirements

- IBM compatible computer or Mac
- Windows, Mac 8.6 or higher, or Linux operating system
- Available USB port
- 64 MB RAM or more.
- Pentium 233 MHz or higher processor
- USB to RS-232 Converter User's Manual (the document you are reading now)

3. Installation

3.1 Windows

NOTE: DO NOT connect the USB Serial Converter to your computer before completing the driver installation.

1. Insert the provided CD into your CD-ROM drive. Run the Setup file under E:\Driver where E: is your CD-ROM drive letter.
When the welcome screen appears, click Next.
2. When the following screen appears, click Finish.

Once the installation is done, connect the converter to a free USB port on your computer.

3.2 Verify the Driver Installation on Windows

To verify your converter installation, launch Device Manager:

- Windows 2000/XP: Right-click the My Computer icon on the desktop and select Properties —> System —> (Hardware) —> Device Manager.
- Windows Vista/Windows 7: Right-click the Computer icon on the desktop and select Properties —> Device Manager.

In the Ports (COM & LPT) group, a string similar to USB to Serial Port or Prolific USB to Serial Comm Port should be displayed.

If there is a question or exclamation mark next to that item, then the driver is not properly installed. Please delete the item and repeat the installation steps.

3.3 Mac OS X

The Mac X driver supports:

- Mac OS 10.1 and above for PowerPC based Mac
- Mac OS 10.4 and above for Intel based Mac

To install the drivers, follow the steps listed below:

1. Contact Black Box Technical Support to download the correct driver.
2. Double-click the dmg file on the desktop to extract the file. Then double-click the file that is extracted.
3. When the welcome screen appears, click Continue.
4. Select a destination disk to install the driver and click Continue.
5. Click Install.
6. When the Authenticate screen appears, enter your password in the provided field and click OK.
7. Click Continue Installation.
8. Click Restart to finish installing the driver and reboot your Mac.
9. Connect the converter to a free USB port on your Mac.
10. To verify the installation: Go to Apple System Profiler —> Extensions and you should find the driver on the list.
This means the installation is successful.

3.4 Connecting a Serial Device

Now you can connect your RS-232 device to the converter. If prompted to install the driver for your serial device, follow the manual that comes with your serial device to complete the installation.



Figure 3-14. Installation diagram.

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About Black Box

Black Box provides an extensive range of networking and infrastructure products. You'll find everything from cabinets and racks and power and surge protection products to media converters and Ethernet switches all supported by free, live 24/7 Tech support available in 60 seconds or less.

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