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Acer P9.3030C.001

Acer USB to RS-232 Serial Adapter User Manual

Model: P9.3030C.001

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Acer USB to RS-232 Serial Adapter, Model P9.3030C.001. This adapter facilitates the connection of serial devices (such as modems, digital cameras, label writers, barcode scanners, and other RS-232 compatible equipment) to a computer's USB port. It supports full-duplex data transmission and reception (TXD and RXD) and includes support for 6 modem control pins (RTS, CTS, DTR, DSR, DCD, and RI), with configurable data bits (5, 6, 7, or 8).

2. PRODUCT OVERVIEW



Figure 1: Acer USB to RS-232 Serial Adapter. This image displays the Acer USB to RS-232 Serial Adapter. It features a white, rectangular housing containing the DB-9 serial port connector on one end, and a white cable extending from the other end, terminating in a standard USB-A plug. The cable is coiled, indicating its flexibility.

3. SETUP AND INSTALLATION

The Acer USB to RS-232 Serial Adapter is designed for easy installation. Follow these steps to set up your adapter:

1. **Driver Installation:** Before connecting the adapter, it is recommended to install the necessary drivers. These drivers are typically provided on a CD included with the product or can be downloaded from the official Acer support website. Follow the on-screen instructions for driver installation.
2. **Connect to Computer:** Plug the USB-A end of the adapter cable into an available USB port on your computer.
3. **Connect to Serial Device:** Connect your RS-232 serial device cable to the DB-9 (D-Sub 9 pin) connector on the adapter. Ensure a secure connection.
4. **Verification:** After connecting, your operating system should recognize the new hardware. You can verify the installation in your computer's Device Manager (Windows) or System Information (macOS/Linux) to confirm the serial port has been assigned.

Note: For optimal performance, ensure your operating system is up to date and that you are using the latest drivers for the adapter.

4. OPERATING INSTRUCTIONS

Once the Acer USB to RS-232 Serial Adapter is installed, it functions as a standard serial port on your computer.

- **Data Transmission:** The adapter supports full-duplex communication, meaning it can transmit (TXD) and receive (RXD) data simultaneously.
- **Modem Control:** The adapter provides 6 modem control pins: Request To Send (RTS), Clear To Send (CTS), Data Terminal Ready (DTR), Data Set Ready (DSR), Data Carrier Detect (DCD), and Ring Indicator

(RI). These pins are essential for handshaking and flow control with certain serial devices.

- **Data Bits:** The adapter is compatible with serial communication settings using 5, 6, 7, or 8 data bits. Configure your serial communication software to match the settings of your connected device.
- **Software Configuration:** Use your serial communication software (e.g., HyperTerminal, PuTTY, or custom applications) to select the correct COM port assigned to the adapter and configure parameters such as baud rate, parity, data bits, and stop bits to match your serial device.

5. SPECIFICATIONS

- **Brand:** Acer
- **Model Number:** P9.3030C.001
- **Connector Type:** RS-232 - D-Sub 9 pin (DB-9)
- **Interface:** Serial
- **USB Type:** USB-A
- **Data Transmission:** Full-Duplex (TXD and RXD)
- **Modem Control Pins:** RTS, CTS, DTR, DSR, DCD, RI (6 pins)
- **Data Bits Supported:** 5, 6, 7, or 8
- **Number of Ports:** 2 (one USB-A, one RS-232 DB-9)
- **Quantity in Package:** 1 adapter
- **Electrical Plug Type:** No external power plug required (powered via USB)

6. TROUBLESHOOTING

If you encounter issues with your Acer USB to RS-232 Serial Adapter, consider the following troubleshooting steps:

- **No Device Recognition:**
 - Ensure drivers are correctly installed. Reinstall if necessary.
 - Try a different USB port on your computer.
 - Test the adapter on another computer to rule out system-specific issues.
- **Communication Errors:**
 - Verify that the serial communication settings (baud rate, parity, data bits, stop bits) in your software match those of the connected serial device.
 - Check the physical connection of both the USB and DB-9 cables.
 - Ensure the correct COM port is selected in your software.
- **Intermittent Connection:**
 - Avoid using unpowered USB hubs; connect directly to a computer's USB port or a powered hub.
 - Check for loose cable connections.

7. MAINTENANCE

To ensure the longevity and proper functioning of your Acer USB to RS-232 Serial Adapter, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the adapter. Avoid liquid cleaners, as they may damage the internal components.
- **Storage:** Store the adapter in a cool, dry place away from direct sunlight and extreme temperatures when

not in use.

- **Handling:** Avoid bending or twisting the cable excessively, and do not pull on the cable to disconnect the adapter. Always grasp the connector housing.
- **Environmental Conditions:** Do not expose the adapter to moisture or corrosive environments.

8. WARRANTY AND SUPPORT

For information regarding the warranty of your Acer USB to RS-232 Serial Adapter, please refer to the warranty card included with your purchase or visit the official Acer support website. Support resources, including driver downloads and FAQs, are typically available on the manufacturer's website.

Visit [Acer Support Website](#)