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Socket Mobile SL0707-078

Socket Mobile SL0707-078 Ruggedized Serial I/O PC Card User Manual

Model: SL0707-078

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of the Socket Mobile SL0707-078 Ruggedized Serial I/O PC Card. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.

2. PRODUCT OVERVIEW

The Socket Mobile SL0707-078 is a Ruggedized Serial I/O PC Card designed to add a high-speed RS-232 port to your mobile computer. It enables connectivity with a wide range of serial devices, including fax/modems, digital cameras, bar code scanners, monitoring and control systems, data collection gear, lab equipment, and GPS receivers. The card features a robust design with a 17-inch cable terminating in a male DB-9 connector.



Figure 1: Socket Mobile SL0707-078 Ruggedized Serial I/O PC Card with attached DB-9 cable.

3. KEY FEATURES

- **High-Speed Connectivity:** Supports baud rates up to 921.6 Kbps with Hi-Speed COM Tools.
- **COM Port Management:** Allows quick identification and modification of COM port assignments.
- **Standard Interface:** Equipped with one RS-232 serial port and an industry-standard DB-9 Connector.
- **UART Compatibility:** Provides standard 16550 compatible UARTS, with compatibility for 16650, 16750, and 16950.

- **Enhanced FIFO:** Includes UARTS with 128-byte FIFO for improved data handling.
- **Hardware Flow Control:** Supports hardware flow control for reliable data transmission.
- **Low Power Consumption:** Utilizes only 2.4mA (typical at 3.3V), extending mobile computer battery life.
- **Plug & Play:** Features Plug & Play and hot-swapping capabilities.
- **Voltage Compatibility:** Operates in both 3.3V and 5V systems.
- **Ruggedized Design:** Durable construction suitable for various environments.

4. SYSTEM REQUIREMENTS

To use the Socket Mobile SL0707-078 PC Card, your mobile computer must meet the following requirements:

- **Operating System:**
 - Windows 95 (v4.00.950B)
 - Windows 98 / 98 Second Edition
 - Windows Me
 - Windows 2000
 - Windows XP
 - Windows CE for Pocket PC 2000/2002/2003
 - Windows CE for HPC Pro 2.11 / HPC 2000
- **Available PC Card Slot:** A compatible PC Card (PCMCIA) slot.

5. SETUP AND INSTALLATION

Follow these steps to install your Socket Mobile SL0707-078 PC Card:

1. **Insert the PC Card:** Carefully insert the Socket Mobile SL0707-078 PC Card into an available PC Card slot on your mobile computer. Ensure it is fully seated.
2. **Driver Installation:**
 - Upon insertion, your operating system may automatically detect new hardware and prompt for driver installation.
 - Insert the driver CD (if provided) or download the latest drivers and Hi-Speed COM Tools from the Socket Mobile official website.
 - Follow the on-screen instructions to complete the driver installation. Restart your computer if prompted.
3. **Connect Serial Device:** Connect your serial device (e.g., bar code scanner, GPS receiver) to the DB-9 connector on the ruggedized cable of the PC Card.
4. **Verify Installation:**
 - Open your computer's Device Manager (e.g., in Windows, right-click "My Computer" or "This PC", select "Manage", then "Device Manager").
 - Expand the "Ports (COM & LPT)" section. You should see a new COM port listed for the Socket Mobile Serial I/O PC Card.
 - Note the assigned COM port number for use with your serial applications.

Important: Always install the correct drivers for your operating system to ensure proper functionality and optimal performance.

6. OPERATING INSTRUCTIONS

Once the drivers are installed and the card is recognized, you can begin using the serial port:

1. **Accessing the COM Port:** Your serial application (e.g., terminal emulator, data collection software) will require you to select the correct COM port number assigned to the Socket Mobile PC Card. Refer to your application's documentation for specific instructions.
2. **Configuring Baud Rates:**
 - The Hi-Speed COM Tools allow you to map legacy baud rates to higher speeds (e.g., 230.4, 460.8, or 921.6 Kbps).
 - Launch the Hi-Speed COM Tools utility (usually found in your Start Menu or system tray).
 - Use the user-friendly visual display to set custom baud rates or re-map existing ones.
 - Ensure the baud rate setting in your application matches the setting configured for the COM port.
3. **Changing COM Port Assignments:** If you need to change the assigned COM port number, use the Hi-Speed COM Tools or your operating system's Device Manager. This can be useful to avoid conflicts with other serial devices.
4. **Hot-Swapping:** The card supports hot-swapping. You can insert or remove the card while the computer is running, though it is generally recommended to close any applications actively using the serial port before removal.

7. MAINTENANCE AND CARE

To ensure the longevity and reliable operation of your Socket Mobile SL0707-078 PC Card, follow these guidelines:

- **Handle with Care:** Avoid dropping the card or subjecting it to excessive force.
- **Keep Clean:** Periodically clean the card's contacts with a soft, dry, lint-free cloth. Do not use liquid cleaners.
- **Storage:** When not in use, store the card in a protective sleeve or case to prevent dust and physical damage.
- **Environmental Conditions:** Avoid exposing the card to extreme temperatures, humidity, or direct sunlight.
- **Cable Integrity:** Inspect the ruggedized cable and DB-9 connector regularly for any signs of wear or damage.

8. TROUBLESHOOTING

If you encounter issues with your Socket Mobile SL0707-078 PC Card, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Card not detected by computer.	Card not fully inserted. PC Card slot issue. Drivers not installed.	Ensure the card is firmly seated in the PC Card slot. Test with another PC Card slot or computer if possible. Install the correct drivers from the Socket Mobile website.
Serial device not communicating.	Incorrect COM port selected. Baud rate mismatch. Faulty serial cable or device. Driver issue.	Verify the COM port number in Device Manager and your application. Ensure baud rates in the Hi-Speed COM Tools and your application match. Test with a different serial cable or device. Reinstall drivers.
Slow communication speeds.	Baud rate not optimized. Software configuration.	Use the Hi-Speed COM Tools to map to higher baud rates (e.g., 921.6 Kbps). Check your application's settings for optimal performance.

9. TECHNICAL SPECIFICATIONS

Model Number	SL0707-078
Interface	PC Card (PCMCIA)
Serial Ports	1 x RS-232
Connector	DB-9 Male
Max Baud Rate	921.6 Kbps
UART Compatibility	16550, 16650, 16750, 16950
FIFO Size	128-byte
Power Consumption	2.4mA (typical at 3.3V)
Operating Voltage	3.3V and 5V Systems
Product Dimensions	4 x 1 x 3 inches (approximate, card only)
Item Weight	2.08 ounces

10. WARRANTY INFORMATION

The Socket Mobile SL0707-078 Ruggedized Serial I/O PC Card comes with a **Limited Lifetime Warranty**. This warranty covers defects in materials and workmanship under normal use. For detailed terms and conditions, including how to make a warranty claim, please refer to the official Socket Mobile website or contact their customer support.

11. CUSTOMER SUPPORT

For technical assistance, driver downloads, or further information regarding your Socket Mobile SL0707-078 PC Card, please visit the official Socket Mobile website. You can typically find support resources, FAQs, and contact information for customer service there.

Note: For Sharp Zaurus support, refer to www.socketcom.com/ZaurusSharp.asp.

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