

Introduction

The RocketPort USB Serial Hub III is an intelligent, wall-mountable, expansion module that connects to a PC through the Universal Serial Bus (USB) port. The RocketPort USB Serial Hub III provides eight RS-232 serial ports with over 230 Kbps data transfer rate. The RocketPort USB Serial Hub III is compatible with USB 1.1, and provides easy connectivity for standard serial and other USB devices.



System Requirements

The PC connected to the RocketPort USB Serial Hub III must meet the following requirements:

- A Pentium-class CPU.
- An available USB port (type A, flat connector, downstream).
- One of the following operating systems: Windows 2000/XP/2003 or a Linux distribution including the Linux Prolific driver (pl2303) in the compilation.

LED Indicators

The green LEDs on top of the device are labeled as follows:

- **PWR** - This is the power status indicator. When lit, it indicates the RocketPort USB Serial Hub III is up and running.
- **S1-S8** - These LEDs represent serial ports 1 - 8. When lit, it indicates a working connection on the serial port. Blinking indicates data traffic on the serial port.

Installation Procedures

Installation Requirements

- RocketPort USB Serial Hub III
- Power supply cable
- USB cable
- Driver media CD
- PC (See "System Requirements" for more information.)

Note: Do not connect the RocketPort USB Serial Hub III to the PC until requested to do so.

Installation Notes

XON/XOFF flow control is not included in the driver for the Linux 2.6.11 kernel. Check the Control Web site for the latest software updates.

Installing RocketPort USB Serial Hub III

1. **Windows OS only:** Insert the driver media CD into your CD drive and follow the prompts.
- Linux OS only:** Skip this step.
2. Connect one end of the power supply to a power outlet and the other end to the RocketPort USB Serial Hub III.
3. Connect the flat end of USB cable to the downstream USB port on your PC.
4. Plug the other end of the USB cable to the upstream USB port on the RocketPort USB Serial Hub III. The USB port is located next to the serial ports.

The PC automatically locates and configures each serial port on the RocketPort USB Serial Hub III. All nine LEDs


are active.

Note:(Linux OS only) The ports created in Linux are located in the /dev directory and are labeled ttyUSB0 through ttyUSB7.

Verifying Installation (Windows Only)

1. Right-click **My computer**, and select **Properties**.
2. **For Windows 2000 and Windows XP:** Click the **Hardware** tab and click the **Device Manager** button.
3. Double-click **Ports [COM & LPT]**. It should display eight RocketPort USB-to-Serial COM Ports (for example, COM3-COM10).
4. Double-click **Universal Serial Bus controllers**. It should display two Generic USB Hubs.

Removing the RocketPort USB Serial Hub III (Windows Only)

1. **Windows 2000 only:**
 - a. Click the **Unplug or Eject Hardware** icon () in the lower right corner of your screen and select **Stop USB Device**.
 - b. Click **OK** to dismiss the **Safe to Remove Hardware** dialog.
2. Disconnect the USB cable from your computer.
3. Insert the driver media CD into your CD drive, select **Uninstall driver!**, click **Next** and follow the prompts.

Reboot the PC or choose 'later' to close the install shield and reboot the PC at your convenience.

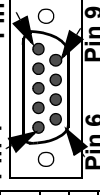
Note: You cannot re-install the driver until you reboot the PC.

Connecting Serial Devices to RocketPort USB Serial Hub III

Building Cables

The following table and figure show the pinout signals for the RS-232 DB9 serial port connectors on the RocketPort USB Serial Hub III. See "DB9 Serial Cables and Loopback Plugs" in the *Control Cables User Guide* for more information on building cables.

RS-232 DB9 Male
Pin 1 Pin 5
Pin 6 Pin 9



RS-232 DB9 Connector Pinouts		
Pin	RS-232 Mode	Description
1	DCD	Data Carrier Detected
2	RxD	Received Data
3	TxD	Transmitted Data
4	DTR	Data Terminal Ready
5	SGND	Signal Ground
6	DSR	Data Set Ready
7	RTS	Request to Send
8	CTS	Clear to Send
9	RI	Ring Indicator

Connecting Serial Devices

1. Connect the serial device(s) to the serial port(s) on the RocketPort USB Serial Hub III.
2. Disconnect the USB cable from the RocketPort USB Serial Hub III upstream port. The USB port is located next to the serial ports.
3. Reconnect the USB cable to the RocketPort USB Serial Hub III upstream port. The PC automatically locates and configures each serial port on the RocketPort USB Serial Hub III.

Replacing a PNP Serial Device

The following procedure describes how to replace a plug-and-play (PNP) serial device connected to the RocketPort USB Serial Hub III with another PNP serial device.

1. Disconnect the old PNP serial device from the serial port on the RocketPort USB Serial Hub III.
2. Connect the new PNP serial device to the serial port on the RocketPort USB Serial Hub III.
3. Disconnect the USB cable from the RocketPort USB Serial Hub III upstream port. The USB port is located next to the serial ports.
4. Reconnect the USB cable to the RocketPort USB Serial Hub III upstream port. The PC automatically locates and configures each serial port on the RocketPort USB Serial Hub III.

Hardware Specifications

The following topics provide product specifications and safety notices for the RocketPort USB Serial Hub III family.

Environmental Conditions

Environmental Condition	Value
Air temperature: Operating temperature Storage temperature	0°C to 50°C -40°C to 70°C
Humidity (non-condensing): System on System off	8% to 80% 20% to 80%
Altitude	0 to 10,000 feet

Electromagnetic Compliance

Emission: Canadian EMC requirements ICES-003 CISPR-22 European Standard EN55022 FCC PART 15, Subpart B: Class A limit	
Immunity: EN55024: IEC 1000-4-2/EN61000-4-2: ESD IEC 1000-4-3/EN61000-4-3: RF IEC 1000-4-4/EN61000-4-4: Fast Transient IEC 1000-4-5/EN61000-4-5: Surge IEC 1000-4-6/EN61000-4-6: Conducted disturbance IEC 1000-4-8/EN61000-4-8: Magnetic field IEC 1000-4-11/EN61000-4-11: Dips and Voltage Variations	
Safety: IEC 60950/EN60950 CSA C22.2 No. 60950/UL 60950, Third Edition	
Regulatory approvals: CE Mark, C-Tick, CUL/UL, and FCC Part 15: Subpart B: Class A	

Product Specifications

Topic	Specification
Baud rate	230 Kbps
Bus interface	USB 1.1
Current consumption	5V 300mA
Dimensions (L x W x H)	7 7/8" x 3 5/8" x 1 5/8"
Mean time between failure	17.1 years
Number of serial ports	8
Power supply (maximum)	5V DC and 3 A
Input line frequency	50-60 Hz
Input line voltage	100-240 V
Power consumption @ 5V	1.5 W
Surge protection	4KV
Weight (device only)	1.17 lbs

FCC Notices

Radio Frequency Interference (RFI) (FCC 15.105)
This equipment has been tested and found to comply with the limits for Class A digital devices pursuant to Part 15 of the FCC Rules.

This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction manual, 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 and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment to 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.

Labeling Requirements (FCC 15.19)

This equipment complies with Part 15 of FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

Modifications (FCC 15.21)

Changes or modifications to this equipment not expressly approved by Comtrol® Corporation may void the user's authority to operate this equipment.

Serial Cables (FCC 15.27)

This equipment is certified for Class A operation when used with shielded cables.

Transfer

Transferees must accept these License Terms as a condition to the transfer.

Technical Support

If you need technical support, contact Comtrol using one of the following methods:

Contact Method	Corporate Headquarters	Control Europe
FAQ/Online	support.comtrol.com/support.asp	
Downloads	support.comtrol.com/download.asp	
Online	support.comtrol.com/online	support@comtrol.co.uk
Web site	www.comtrol.com	www.comtrol.co.uk
Fax	(763) 494-4199	+44 (0) 1 869-323-211
Phone	(763) 494-4100	+44 (0) 1 869-323-220

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Second Edition, August 2, 2005

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