





RocketPort[®] USB Serial Hub II (4-Port) RocketPort USB Serial Hub III (8-Port) Hardware Guide

The RocketPort USB Serial Hub is an intelligent, wall-mountable, expansion module that connects to a PC through a Universal Serial Bus (USB) port. The RocketPort USB Serial Hub provides four or eight RS-232 serial ports with over 230 Kbps data transfer rate.

This *Hardware Guide* discusses building cables, the LEDs, and provides specification information.

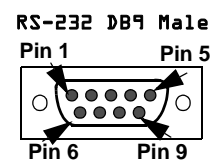
For device driver installation procedures, see the appropriate document:

Driver Installation Documents	Description
Linux Driver Installation 	A Linux [®] distribution that includes the Prolific [®] driver (pl2303) in the kernel, compiled in or loaded as a module. You can check for a later version (left) or use the <code>rpusbsh2+3_linux_install.txt</code> file located in the <code>install_doc</code> subdirectory on the CD.
Driver Installation for Windows 	This document supports driver installations for Windows [®] 2000, Windows XP, or Windows Server 2003 systems.

Building Cables

This table and figure show the pinout signals for the RS-232 DB9 serial port connectors on the RocketPort USB Serial Hub.

Pin	RS-232	DB9 Signals
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



If necessary, refer to the *DB9 Serial Cables and Loopback Plugs* section in the [Control Cables User Guide](#) for more information on building cables.

LED Indicators

The green LEDs on top of the RocketPort USB Serial Hub are labeled as follows:

- **PWR** - This is the power status indicator. When lit, it indicates the RocketPort USB Serial Hub is up and running.
- RocketPort USB Serial Hub II: **S1-S4** (Ports 1 - 4)
- RocketPort USB Serial Hub III: **S1-S8** (Ports 1 - 8)

These LEDs represent the serial ports.

- When lit, they indicate a working connection on the serial port.
- Blinking indicates data traffic on the serial port.

Hardware Specifications

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

Hardware Specifications	
Dimensions:	
RocketPort USB Serial Hub II	7.5" x 0.875" x 3.0"
RocketPort USB Serial Hub III	7.825" x 1.625" x 3.625"
Weight (device only):	
RocketPort USB Serial Hub II	8.7 oz
RocketPort USB Serial Hub III	18.72 oz

Electrical Specifications	
Current consumption +5V:	
RocketPort USB Serial Hub II	325mA
RocketPort USB Serial Hub III	500 mA
Power consumption @ + 5V:	
RocketPort USB Serial Hub II	1.7W
RocketPort USB Serial Hub III	2.5W
Power supply (maximum)	
RocketPort USB Serial Hub III	5VDC and 3A
Input line frequency (RocketPort USB Serial Hub III)	50-60 Hz
Input line voltage (RocketPort USB Serial Hub III)	100-240V
Surge protection	Minimum of 4KV for a duration of 1ns @ 200A

Environmental Conditions	
Air temperature:	
Operating temperature	0°C to 50°C
Storage temperature	-40°C to 70°C
Operating humidity (non-condensing)	5% to 95%

Environmental Conditions (Continued)	
Altitude	0 to 10,000 feet
Heat Output: RocketPort USB Serial Hub II RocketPort USB Serial Hub III	4.5 BTU/hr 8.5 BTU/hr
Mean time between failures (MTBF): RocketPort USB Serial Hub II RocketPort USB Serial Hub III	30.7 years 17.1 years

Serial Communications Specifications	
Baud rate	230 Kbps
Software interface: RocketPort USB Serial Hub II RocketPort USB Serial Hub III	USB1.0, 1.1, and 2.0 USB 1.1 (2.0 compatible)
Baud rate	300 to 230.4Kbps
Device driver data control: Data bits Parity Stop bits Flow control	7 or 8 odd, even, or none 1 or 2 Hardware and software

Electromagnetic Compliance
Emissions: Canadian EMC requirements ICES-003 CISPR-22/AS/NZS-3548 European Standard EN55022 FCC PART 15, Subpart B: Class B 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, FCC Part 15: Subpart B: Class B

FCC Notices

Radio Frequency Interference (RFI) (FCC 15.105)

This equipment has been tested and found to comply with the limits for Class B 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 B 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
FAQ/Online	http://www.comtrol.com/support/
Downloads	http://www.comtrol.com/downloads
Web site	http://www.comtrol.com
Phone	763.494.4100

Trademarks

Control and RocketPort are registered trademarks of Control Corporation.

Prolific is a trademark of Prolific Technology Inc.

Linux is a registered trademark of Linus Torvalds.

Microsoft and Windows are registered trademarks of Microsoft Corporation in the United States and/or other countries.

Other product names mentioned herein may be trademarks and/or registered trademarks of their respective owners.

First Edition, 4/1/08

Copyright ©2005-2008. Control Corporation.

All Rights Reserved.

Control Corporation makes no representations or warranties with regard to the contents of this document or to the suitability of the Control product for any particular purpose. Specifications subject to change without notice. Some software or features may not be available at the time of publication. Contact your reseller for current product information.