



## RocketPort® EXPRESS 4J Card

Part Number: 31305-2



### KEY FEATURES AND BENEFITS

- RJ45 multi-port serial expansion using a single PCIe slot maximizes host expansion capabilities; adds additional COM ports using only one slot
- PCI Express x1, x2, x4, x8, x12 and x16 lane connectivity
- Low-latency communication supporting the widest variety of applications
- Robust driver support enables card to work seamlessly with popular operating systems - Windows, Linux, QNX
- Microsoft certified Windows drivers supporting Windows Vista, XP, Server 2003, and Windows 7
- RS-232, RS-422, and RS-485 software-selectable
- On-board dedicated 44MHz RISC processor minimizes "host" CPU utilization
- Edge-mounted RJ45 serial ports provide cost-effective, compact serial connections
- Transmit and receive buffers 32 times larger than a standard 16550 UART-based serial card ensuring smooth, efficient data transfer
- RoHS 2 compliant under CE

### PRODUCT DESCRIPTION

Control's RocketPort EXPRESS 4J serial port expansion card provides four "native" serial ports utilizing a single PCIe card slot and is compatible with all PCI Express bus architectures. The RJ45 serial ports, mounted on the edge of the card, support software configurable RS-232/422/485 serial communications at speeds up to 921.6 Kbps.

Every RocketPort serial card features the high-performance RocketPort processor chip, consisting of a dedicated 44MHz core that minimizes host CPU utilization and optimizes data transmission via larger transmit-and-receive buffers than those of 16550 UART chips, commonly used in standard PC serial

ports and low-end serial cards.

RocketPort technology enables these cards to outperform other serial expansion cards by handling the transmission of large amounts of data more reliably and efficiently.

Certified Windows drivers, support for the most popular operating systems, and readily available U.S.-based support makes the RocketPort 4J the perfect solution for projects requiring PC-based serial communication.



# ROCKETPORT SPECIFICATIONS

## HARDWARE

Maximum Cards/System Bus Interface	4
PCI Express (PCIe) x1, x2, x4, x8, x12, x16-Lane	
Product Weight (w/ cable)	2.9 oz

## ELECTRICAL SPECIFICATIONS

Current Consumption	3.3VDC or 910mA
Power Consumption	3.1 W
Surge Protection	15kV @200A for 1ns

## ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	0 to 60°C
Storage Temperature	-20 to 85°C
Operating Humidity	
NonCondensing	5% to 95%
Altitude	0 to 10,000 Ft
Heat Output	10.6 BTU/Hr
Mean time between failures	99.2 Years

## DEVICE DRIVERS

FreeBSD® 5  
 FreeBSD® 6  
 QNX® 6  
 SCO OpenServer™ 5  
 SCO OpenServer™ 6  
 Linux  
 Microsoft® Windows® 7  
 Microsoft® Windows® 2008 Server  
 Microsoft® Windows® Vista  
 Microsoft® Windows Server® 2003  
 Microsoft® Windows® XP  
 Microsoft® Windows NT® 4.0 (Legacy)  
 Microsoft® Windows® 2000 (Legacy)

## SERIAL COMMUNICATIONS

Port Communication	RJ45
Software Interfaces	RS-232/422/485
Baud Rates	300 to 921.6 Kbps
Receive Buffer	512 Bytes
Transmit Buffer	512 Bytes
Data Bits	5, 6, 7, or 8
Parity	Odd, Even, None Mark and Space
Stop Bits	1, 1.5, or 2
Flow Control	Hardware or Software
Ring Indicator	No

## EXPORT INFORMATION

Packaged Shipping Weight	0.8 lbs
Package Dimensions	9.19" x 7.25" x 2.5"
UPC Code	7.5672731305-2
ECCN	EAR99
Schedule B Number	8471.80.1000

## REGULATORY APPROVAL MARKS



## REGULATORY STANDARDS

**Immunity**  
 European Standard 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: Dip and Voltage

**Emission**  
 Canadian EMC Requirements ICES-003  
 European Standard EN55022  
 FCC Part 15 Subpart B: Class B limit  
 AS/NZS CISPR 22

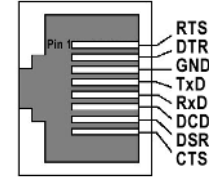
**Safety**  
 IEC 60950/EN60950  
 CSA C22.2 No. 60950/UL60950, Third Edition  
 European Standard: RoHS 2 compliant under CE

## FEATURES

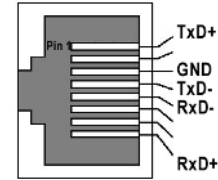
RoHS 2 compliant under CE  
 Low-Profile or Standard Height  
 Easy Setup  
 5 Year Warranty

## PINOUT DIAGRAMS

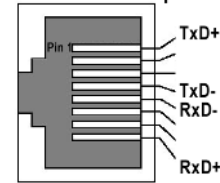
### RS-232



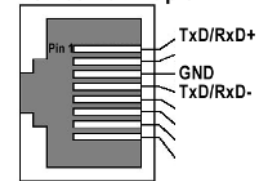
### RS-422



### RS-485 Full Duplex



### RS-485 Half Duplex



## Warranty Information

Comtrol offers a 30-day satisfaction guarantee and 5-year limited warranty.

## Sales Support

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 sales@comtrol.com

## Technical Support

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## Email, FTP, and Web Support

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