

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	4
Bus Interface	
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

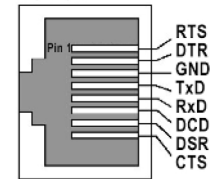
IEC 60950/EN60950
 CSA C22.2 No. 60950/UL60950, Third Edition
 European Standard: RoHS 2 compliant under CE

FEATURES

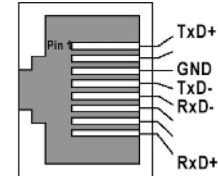
RoHS 2 compliant under CE
 Low-Profile or Standard Height
 Easy Setup
 5 Year Warranty

PINOUT DIAGRAMS

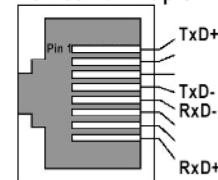
RS-232



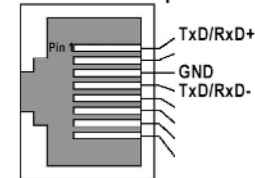
RS-422



RS-485 Full Duplex



RS-485 Half Duplex



Warranty Information

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

Sales Support

+1.763.957.6000
 sales@comtrol.com

Technical Support

+1.763.957.6000
 www.comtrol.com/
 support

Email, FTP, and Web Support

info@comtrol.com
 ftp.comtrol.com
 www.comtrol.com