RocketPort® EXPRESS 8J Card

Part Number: 31310-6

KEY FEATURES AND BENEFITS

- RJ11 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
- 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
- Low-latency communication supporting the widest variety of applications
- RS-232, RS-422, and RS-485 software-selectable
- On-board dedicated 44MHz RISC processor minimizes "host" CPU utilization
- Edge-mounted RJ11 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

Comtrol's RocketPort EXPRESS 8J serial port expansion card provides eight "native" serial ports utilizing a single PCIe card slot and is compatible with all PCI Express bus architectures. The RJ11 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 8J the perfect solution for projects requiring PC-based serial communication.

connect. communicate. control.

ROCKETPORT SPECIFICATIONS

HARDWARE
Maximum Cards/System
4
Bus Interface
PCI Express (PCIe) x1, x2, x4, x8, x12, x16-Lane
Board Dimensions
4.7" x 4.0"
Product Weight (w/ cable)
3.9 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
65.6 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
RJ11
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
0.85 lbs
Package Dimensions
9.19" x 7.25" x 2.5"
UPC Code
7.5672731310-6
ECCN
EAR99
Schedule B Number
8471.80.1000

REGULATORY APPROVAL MARKS

$\mathsf{C} \mathsf{E}$ FC ✓RoHS © c**RU**us

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
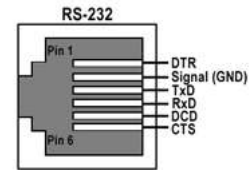European Standard: RoHS 2 compliant under CE

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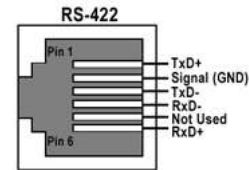RoHS 2 compliant under CE
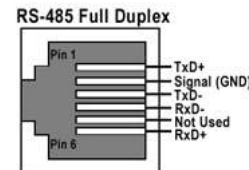Low-Profile or Standard Height
Easy Setup
5 Year Warranty

SERIAL PINOUT

RS-232

Pin 1
— DTR
— Signal (GND)
— TxD
— RxD
— DCD
— CTS
Pin 6
RJ11

RS-422

Pin 1
— TxD+
— Signal (GND)
— TxD-
— RxD-
— Not Used
— RxD+
Pin 6
RJ11

RS-485 Full Duplex

Pin 1
— TxD+
— Signal (GND)
— TxD-
— RxD-
— Not Used
— RxD+
Pin 6
RJ11

RS-485 Half Duplex

Pin 1
— TxD/RxD+
— Signal (GND)
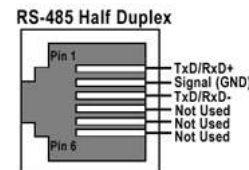— TxD/RxD-
— Not Used
— Not Used
— Not Used
Pin 6
RJ11

COMTROL®

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
+1.763.957.6000
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support

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www.comtrol.com