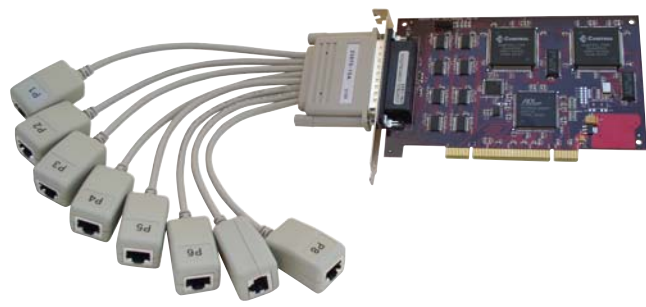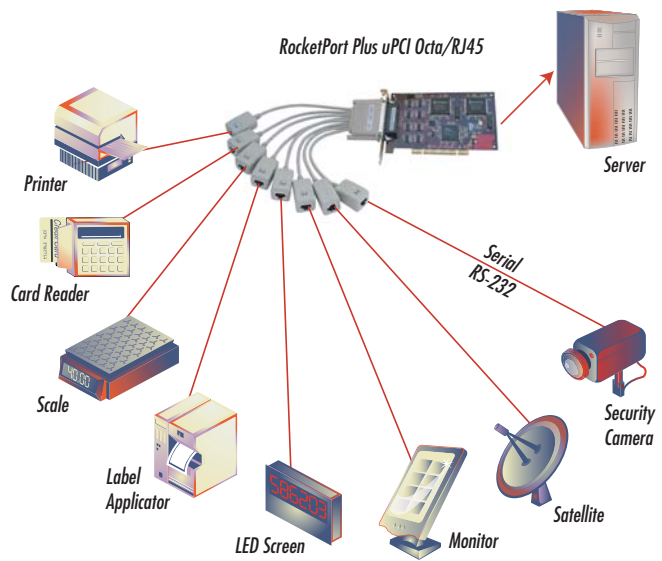Part number 99429-9

RocketPort® Plus uPCI Octa/RJ45

The Comtrol RocketPort Plus uPCI Octa/RJ45 serial port expansion card provides eight "native" serial ports utilizing a single PCI card slot and is compatible with all current 3.3 and 5.0 Volt PCI bus architectures. The RJ45 serial ports support RS-232 serial communications at speeds up to 921 Kbps. Every RocketPort serial card features the high-performance RocketPort ASIC chip, consisting of a dedicated 44MHz processor that minimizes host CPU utilization and larger transmit-and-receive buffers than those of 16550 UART chips used in standard PC serial ports and low-end serial cards. **RocketPort ASIC technology enables these cards to outperform other serial expansion cards by handling the transmission of large amounts of data more reliably and efficiently.** Additionally, RocketPort products do not require the assignment of interrupts, simplifying installation and eliminating conflicts with other server cards. The product is fully compliant with the European RoHS Directive 2002/95/EC.

Highlights

- **RoHS Directive 2002/95/EC compliant**

- **Universal PCI design supporting 3.3 and 5.0 Volt PCI bus architectures**—ensures compatibility with all current PCI bus architectures

- **I/O mapping capabilities**—simplifies installation, eliminates memory conflicts, and enables plug-and-play compatibility

- **Multiport serial expansion using a single slot**—maximizes host expansion capabilities; adds eight COM ports using only one slot

- **On-board dedicated 44MHz RISC processor**—minimizes "host" CPU utilization

- **RS-232 communications support**—enables transmit-and-receive speeds up to 921 Kbps

- **RJ45 fan-out cable**—provides cost-effective, compact, and flexible serial connections

- **Transmit buffers 16 times larger, and receive buffers 64 times larger**, than a 16550 UART—helps ensure smooth, efficient data transfer

- **Robust driver support**—enables card to work seamlessly with popular operating systems

RocketPort Plus uPCI Octa/RJ45

Printer

Card Reader

Scale

Label Applicator

LED Screen

Monitor

Satellite

Security Camera

Server

Serial RS-232

COMTROL®
Network Enabling Devices

Specifications

HARDWARE

Maximum Cards/System	4
Bus Interface	3.3 or 5.0 Volt PCI
Onboard Processor Speed	44MHz
Interrupts Used	None or One
Dimensions (WxH)	6.3 Inches x 4.0 Inches
Product Weight	0.3 Lbs (without Cable)
Packaged Shipping Weight	1.82 Lbs

ELECTRICAL SPECIFICATIONS

Current Consumption	+5V 310mA
Power Consumption	1.55 Watts

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	0 to 45°C
Storage Temperature	−20 to 85°C
Humidity (Non−Condensing)	
Operating Humidity	20% to 80%
Storage Humidity	8% to 80%
Altitude	0 to 10,000 Ft
Heat Output	5.29 BTU/Hr
MTBF	39.8 Yrs
Surge Protection	25KV @200A for 1ns

DEVICE DRIVERS

QNX$^{®}$ 6.X, QNX$^{®}$ 4.X, SCO OpenServer^{TM} 5, Free BSD 4, Free BSD 5, Linux, Microsoft$^{®}$ Windows$^{®}$ 98, Microsoft$^{®}$ Windows ME$^{®}$, Microsoft Windows NT$^{®}$ 4.0, Microsoft$^{®}$ Windows$^{®}$ 2000, Microsoft$^{®}$ Windows XP$^{®}$, Microsoft$^{®}$ Windows Server$^{®}$ 2003

SERIAL COMMUNICATIONS

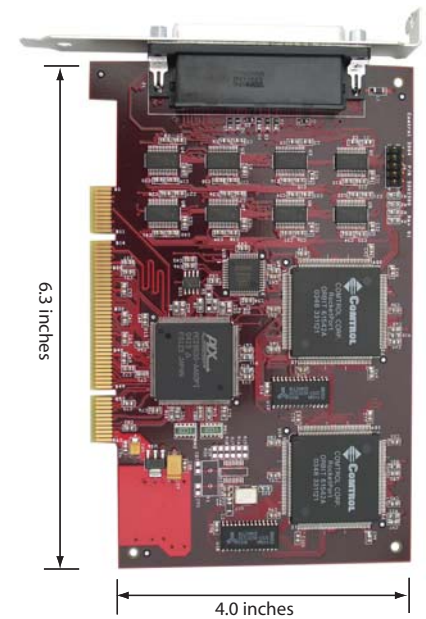|	
Number of Ports	8
Serial Interfaces	RS−232
Baud Rates	Up to 921 Kbps
Receive Buffer Size	1,024 Bytes
Transmit Buffer Size	256 Bytes
Connector Type	RJ45 Female
Data Control	
Data Bits	7 or 8
Parity	Odd, Even, None
Stop Bits	1 or 2

REGULATORY APPROVAL MARKS

FCC Part 15 Subpart B Class B, Canadian ICES−003, C−Tick, CE Mark, UL, CUL, RoHS 2002/95/EC

REGULATORY STANDARDS

Immunity: EN55024, IEC 1000−4−2/EN61000−4−2,
IEC 1000−4−3/EN61000−4−3,
IEC 1000−4−4/EN61000−4−4,
IEC 1000−4−5/EN61000−4−5,
IEC 1000−4−6/EN61000−4−6,
IEC 1000−4−8/EN61000−4−8,
IEC 1000−4−11/EN61000−4−11
Emission: EN55022, Amendment A1
IEC 1000−3−2/EN61000−3−2,
IEC 1000−3−3/EN61000−3−3,
ICES−003, CISPR−22, AS/NZS−3548
Safety: IEC60950/EN60950,

RS-232
Pin 1
RTS
DTR
Signal (GND)
TxD
RxD
DCD
DSR
CTS
RJ45
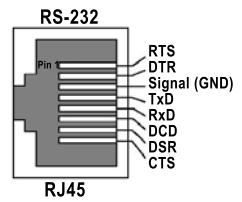
Serial Connector Pin Assignments

6.3 inches

4.0 inches

RoHS Compliant 2002/95/EC

Product Support & Service Information

Sales Support
+1.763.494.4100
sales@comtrol.com

Technical Support
+1.763.494.4100
http://www.comtrol.com/support

Warranty Information
30-Day Satisfaction Gaurantee
5-Year Warranty

Email, FTP, and World Wide Web Support
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COMTROL$^{®}$
Network Enabling Devices
w w w . c o m t r o l . c o m

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