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Find the *Comtrol 95760-7* at our website: ***Click HERE***

Corporate Logo

RocketPort Series Data Sheet



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High Performance Serial Connectivity

—The Easiest Way to Add COM Ports to Your PC System

When you find that you have more serial devices than ports, RocketPort® offers a quick, cost-effective solution. Each RocketPort adds 2 to 32 “native” COM ports to your PC server or PC client using only a *single* PC slot—and no IRQs. The Comtrol RocketPort family of multiport cards makes serial connectivity more powerful, reliable, easier to use, and more cost effective than any other controller available today. RocketPort performance capabilities make it ideal for peripheral control applications such as data acquisition, point-of-sale, and factory floor automation, as well as remote network access and Internet access.

The heart of the RocketPort card is Comtrol's exclusive AIOPIC chip, a 36Mhz ASIC (Application Specific Integrated Circuit) that enables the RocketPort to transmit and receive data at rates far higher than multiport cards based on conventional 16550 UART technology—up to 921 Kbps full duplex across all ports simultaneously. Along with improved throughput speed and reduced load on the host system CPU, the AIOPIC chip also adds an important benefit: increased reliability, with the highest level of integration and longest mean time between failures of any multiport serial card currently on the market.

Unique, Powerful ASIC-Based Architecture Means Fast and Reliable Data Throughput

- **Faster—**RocketPort performance is driven by specially designed AOPIC ASICs that optimize I/O functionality. RocketPort is the only controller that dedicates one 36 MHz processor to every eight ports to maximize throughput at each port for a consistent application of power—from 2 to 128 ports.
- **More Reliable—**RocketPort’s uniquely designed ASICs replace virtually all major hardware components, including the processor and bus interface logic. ASIC integration reduces the number of components by 80%, resulting in fewer chances for failure. In addition, RocketPort implements key communications software functions, such as flow control and line disciplines, in the ASIC firmware to help boost I/O processing speed. The RocketPort ASICs are focused on preserving absolute data integrity and moving it at maximum speed, while keeping CPU utilization to a minimum.
- **More Efficient—**RocketPort has the industry’s largest transmit-and-receive FIFOs to optimize data transfer. With smaller buffers, a card must stop each time the buffer fills and wait for the data to clear. This continual starting and stopping increases the load on the host CPU and reduces overall performance. RocketPort uses transmit FIFOs 16 times larger, and receive FIFOs 64 times larger, than multiport cards designed with 16550 UARTs (Universal Asynchronous Receiver Transmitters). This helps eliminate bottlenecks at the serial controller level while conserving CPU resources.

I/O Mapping Prevents Memory Conflicts

Most serial cards use shared, dual-port memory, which can cause conflicts with other hardware and software products. RocketPort is I/O memory mapped to avoid shared memory conflicts, which makes installation, configuration, and port expansion easy and hassle-free.

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Features/Benefits

- Leading price/performance for any multiport card
- Up to 32 COM ports can be added in a single slot without using any IRQs
- Dedicated 36 MHz Application Specific Integrated Circuits (ASIC) processors, one per every eight ports, for optimum performance
- ASIC integration reduces the number of components by 80%, yielding unmatched reliability and the industry's highest Mean Time Between Failure (MTBF)
- Superior performance—up to 921 Kbps* transmit-and-receive across all ports simultaneously —sustains fully compressed ISDN throughput
- Both ISDN terminal adapters and modems can be connected to the same card
- I/O mapping eliminates memory conflicts and allows plug-and-play compatibility
- Supports PCI and ISA bus architectures, ensuring compatibility regardless of the host environment
- Supports serial interfaces, including RS-232, RS-422, and RS-485
- RocketPort products are packaged complete with the industry's best software drivers from leaders like Microsoft, Novell, SCO, and more
- Easy installation—no shared memory to configure (and no IRQs required)
- Minimal "host" CPU utilization
- Large FIFOs, 64 times larger than a 16550 UART, maximize speed and minimize data loss while optimizing host efficiency and data integrity
- Comtrol's superior technical support is readily available to ensure smooth, hassle-free operation

* Speed dependent on hardware configuration and operating system

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Specifications

Specifications are subject to change without notice. Some software or features may not be available at time of publication. Contact your reseller for current product information.

Hardware Specifications

Varies depending upon model

Agency Approvals

- Canadian EMC Requirements
- FCC Part 15 Class A Certification
- Product Safety UL Recognized
- European EMC Requirements
- ESD and Surge Protection to EN 50082-1 Standard*

*The surge interface model offers additional protection, up to 25KV ESD

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Product Support and Service Information

Technical Support

All Comtrol products come with easy-to-use documentation. For technical assistance, our top-notch technical support team is only a phone call away. Call (763) 494-4100, or e-mail *support@comtrol.com*.

Supported Operating Systems

Visit our Drivers and Downloads for the latest information about currently supported drivers.

Warranty

Comtrol offers a **30-day satisfaction guarantee** and **5-year limited warranty** on **ALL** RocketPort (in-server cards) Products!

Ordering and Pricing Information

Comtrol Rocket Reseller Program

For U.S.-based resellers of Comtrol products. Membership includes co-op and cash rebates, significant demo product discounts, assigned sales team, qualified leads, technical support, and more.

Pricing

Product Name	Part Number	# of Ports	Protocol	Port Type	Bus Type	Max Port Speed	MSRP ($US)	Additional Info
RocketPort PCI 4J	98300-2	4	RS-232	RJ45	PCI	460.8K		Accessories
RocketPort PCI Quad/DB25	95860-4	4	RS-232	DB25M	PCI	460.8K		Accessories Upgrades
RocketPort PCI Quad/DB9	95880-2	4	RS-232	DB9M	PCI	460.8K		Accessories Upgrades
RocketPort PCI 8	95760-7	8	RS-232/ RS-422	Depends on Interface	PCI	230.4K		Accessories
Part Number 95760-7 card also requires any one of the following external interface units:								
RS-232 Interface	94050-0	8	RS-232	DB25F				
RS-232/422 Interface	95050-9	8	RS-232/ RS-422	DB25F				
RS-232/422, Surge Interface	97050-7	8	RS-232/ RS-422	DB25M				
RocketPort PCI 8J	96350-9	8	RS-232	RJ11	PCI	460.8K		Accessories
RocketPort PCI Octa/DB25	95850-5	8	RS-232	DB25M	PCI	460.8K		Accessories
RocketPort PCI Octa/DB9	95870-3	8	RS-232	DB9M	PCI	460.8K		Accessories
RocketPort PCI Octa/RJ45	95890-1	8	RS-232	RJ45	PCI	460.8K		Accessories
RocketPort PCI 16	95750-8	16	RS-232/ RS-422	Depends on Interface	PCI	230.4K		Accessories
Part Number 95750-8 card also requires any one of the following external interface units:								
RM16-RJ45 RS-232 Rack Mount*	98770-3	16	RS-232	RJ45				
	**One 10-foot interface cable included, in addition to standard 36-inch card cable.*							
RM16-RJ45 RS-232 Rack Mount*	96500-8	16	RS-232	RJ45				
	**One 10-foot interface cable included, in addition to standard 36-inch card cable.*							
RM16-RJ45 RS-422 Rack Mount*	98400-9	16	RS-422	RJ45				
	**One 10-foot interface cable included, in addition to standard 36-inch card cable.*							
RS-232 Interface	94100-2	16	RS-232	DB25F				
RS-232/422 Interface	95100-1	16	RS-232/ RS-422	DB25F				

RS-232/422, Surge Interface	97100-9	16	RS-232/ RS-422	DB25M			
RocketPort PCI 32	95900-7	32	RS-232/ RS-422	Depends on Interface	PCI	230.4K	Accessories

Part Number 95900-7 also requires any combination of two 16-port, or one 32-port of the following external interface units:

RM16-RJ45 RS-232 Rack Mount*	98770-3	16	RS-232	RJ45			
	One 10-foot interface cable included, in addition to standard 36-inch card cable.						
RM16-RJ45 RS-232 Rack Mount*	96500-8	16	RS-232	RJ45			
	One 10-foot interface cable included, in addition to standard 36-inch card cable.						
RM16-RJ45 RS-422 Rack Mount*	98400-9	16	RS-422	RJ45			
	One 10-foot interface cable included, in addition to standard 36-inch card cable.						
RS-232 Interface	94100-2	16	RS-232	DB25F			
RS-232/422 Interface	95100-1	16	RS-232/ RS-422	DB25F			
RS-232/422, Surge Interface	97100-9	16	RS-232/ RS-422	DB25M			
RM32-RJ45 RS-232 Rack Mount*	98700-0	32	RS-232	RJ45			
	One 10-foot interface cable included, in addition to standard 36-inch card cable.						

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View the entire Product Catalog

Ordering

Find the closest distributor or reseller near you

Remember to also check out our Clearance Center for special deals!

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Connect with Comtrol

Comtrol is the leading global provider of Enterprise Systems Integration (ESI) and thin-server solutions for office, retail, and industrial automation applications. Comtrol products interconnect, transport, and transform information between devices and systems for process control and management, enable data communications for remote LAN and Internet access, and offer a powerful delivery platform for application-specific embedded systems.

Since 1982, Comtrol has pioneered enterprise systems integration initially through its data communications technologies and later with its programmable thin servers. The company prides itself on quality products and unequaled customer service.

In data communications, Comtrol developed the industry's first serial multiport card for personal computers and today ranks near the top of this stable and growing industry. In 1995, the company launched its flagship RocketPort serial concentrator, which utilizes a Comtrol-developed RISC processor to minimize CPU overhead and maximize ease-of-use and application software compatibility. RocketPort established a new price/performance benchmark in the industry—one that has rarely been challenged.

Comtrol's data communications products are widely used to connect and control peripheral serial devices — within embedded systems, to local servers, and across the enterprise. Applications of the technology include connecting retail point-of-sale devices, ATM machines and other informational and transaction kiosks, process control and manufacturing automation devices on the factory floor, security systems, transportation/traffic monitoring and control systems, and a wide variety of other industrial automation applications.

In 1997, Comtrol developed the industry's first multiple-modem card for personal computers that utilized on-board processing. The RocketModem and its successor, RocketModem II, are now the industry's leading analog multi-modem cards, which are widely used by small and medium enterprises to build communications servers for remote LAN and Internet access.

In 2000, Comtrol again delivered industry-leading products by introducing its proven technology onto the Universal Serial Bus (USB) platform. These new products included the introduction of our USB-attached four-port serial device, the RocketPort USB Serial Hub, and the RocketPort USB Modem Hub, which provides four integrated modems and two downstream USB ports from a signle USB connection.

In addition to providing industry-leading technology-based products, Comtrol is the leading provider of enterprise integration systems to the hospitality industry. The company achieved this position through its historical focus on providing serial data communications products to hotels and motels, which was strengthened through its 1999 acquisition of Protocol Technologies, Inc. Today, Comtrol offers an unequaled suite of communication and integration technologies for this industry sector.

Comtrol is committed to building relationships with worldwide technical and strategic partners. Our products are designed to work with the widest range of hardware and software environments to provide seamless enterprise integration. When you need to connect devices or systems in the enterprise—Connect with Comtrol.

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RocketPort cards - Hardware Specifications

PCI RocketPort Products Specifications

** Specifications are subject to change without notice.*

	95860-4; 95880-2	95850-5; 95870-3; 95890-1	98300-2	96350-9	95760-7	95750-8	95900-7
	Quad/DB25; Quad/DB9	Octa/DB25; Octa/DB9; Octa/RJ45	4J	8J	8 Port	16 Port	32 Port
Hardware Specifications							
# of cards/system	up to 4						
# of ports/card	4	8	4	8	8	16	32
Interrupts/ISA or PCI	none, 3, 4, 5, 9, 10, 11, 12, 15						
Baud rate	460K	460K	460K	460K	230K	230K	230K
Device driver control:							
data bits	7 or 8						
parity	odd, even, none						
stop bits	1 or 2						
Interfaces							
Bus interface	PCI	PCI	PCI	PCI	PCI	PCI	PCI
Communications interface	RS-232	RS-232	RS-232	RS-232	RS-232/RS-422	RS-232/RS-422	RS-232/RS-422
Conditions							
Heat output (BTU/Hr)	17.6	18.2	5.87	18.1	27.1	49.4	67.4
Operating temperature	0 to 40 C						
Storage temperature	-20 to 85 C						
Altitude	0 to 10,000 ft						
Mean time between failure (years)	23.5	23.5	103.4	31.8	60.7	45.6	17.4
Humidity (Non-condensing)							
System on	8% to 80%						
System off	20% to 80%						
Physical Specifications							
Dimensions	5.6" by 4.2"	5.6" by 4.2"	5.1" by 4.2"	6" by 5"	6.875" by 4.21"	6.875" by 4.21"	7.2" by 4.2"
Weight (card only)	4 oz - 10 oz						
Current							
+ 5 VDC	410 mA	440 mA	200 mA	440 mA	600 mA	940 mA	2.9 A
+ 12 VDC	100 mA	100 mA	50 mA	100 mA	110 mA	220 mA	440 mA
- 12 VDC	160 mA	160 mA	10 mA	160 mA	160 mA	320 mA	0

ISA RocketPort Products Specifications

	95510-8; 95530-6	95500-9; 95520-7; 95540-5	94150-7	94900-8	94820-9	94800-1	94810-0	94950-3
	Quad/DB25; Quad/DB9	Octa/DB25; Octa/DB9; Octa/RJ45	4J	8J	4 Port	8 Port	16 Port	32 Port
Hardware Specifications								
# of cards/system	up to 4							
# of ports/card	4	8	4	8	4	8	16	32
Interrupts/ISA or PCI	none, 3, 4, 5, 9, 10, 11, 12, 15							
Baud rate	460K	460K	460K	460K	230K	230K	230K	230K

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Device driver control:								
data bits	7 or 8							
parity	odd, even, none							
stop bits	1 or 2							
Interfaces								
Bus interface	ISA	ISA	ISA	ISA	ISA	ISA	ISA	ISA
Communications interface	RS-232	RS-232	RS-232	RS-232	RS-232/RS-422	RS-232/RS-422	RS-232/RS-422	RS-232/RS-422
Conditions								
Heat output (BTU/Hr)	16.6	16.6	16.6	16.6	17.9	17.9	26.6	53.3
Operating temperature	0 to 40 C							
Storage temperature	-20 to 85 C							
Altitude	0 to 10,000 ft							
Mean time between failure (years)	28.8	28.8	85.3	84.4	78.5	78.5	56.4	33.6
Humidity (Non-condensing)								
System on	8% to 80%							
System off	20% to 80%							
Physical Specifications								
Dimensions	6.25" by 4.2"	6.25" by 4.2"	6.25" by 4.2"	6.25" by 4.2"	8.1" by 4.2"	8.1" by 4.2"	8.1" by 4.2"	13" by 4.2"
Weight (card only)	4 oz - 10 oz							
Current								
+ 5 VDC	350 mA	350 mA	350 mA	350 mA	700 mA	700 mA	950 mA	1.9 A
+ 12 VDC	100 mA	100 mA	100 mA	100 mA	65 mA	105 mA	210 mA	420 mA
- 12 VDC	160 mA	160 mA	160 mA	160 mA	80 mA	115 mA	330 mA	660 mA

RocketPort Interfaces Specifications

Interfaces (External Units) for PCI and ISA	Part Number	Height	Width	Length	MTBF
RS-232/422, DB25 Female, 4 Port	95160-5	.6"	5.8"	4.8"	60.3 yrs
RS-232, DB25 Female, 8 Port	94050-0	.6"	5.8"	4.8"	40.5 yrs
RS-232/422, DB25 Female, 8 Port	95050-9	.6"	5.8"	5.3"	28.1 yrs
RS-232/422, Surge*, DB25 Male, 8 Port	97050-7	.6"	5.8"	5.3"	23.8
RS-232, DB25 Female, 16 Port	94100-2	.6"	5.5"	8.0"	21.9 yrs
RS-232/422, DB25 Female, 16 Port	95100-1	.6"	5.8"	8.5"	14.8 yrs
RS-232/422, Surge*, DB25 Male, 16 Port	97100-9	.6"	5.8"	8.5"	12.7
Rack Mount, RJ45, RS-232 16 Port	96500-8	1.75"	8.25"	16.75"	37.1
Rack Mount, RJ45, RS-422 16 Port	98400-9	1.75"	8.25"	17.75"	
Rack Mount, RJ45, RS-232 32 Port	98700-0	1.75"	8.25"	17.75"	
Quadcable, 4 Port	Included with RocketPort "Quad" parts (above); four 4-foot cables				79.5 yrs
Octacable, 4 Port	Included with RocketPort "Octa" parts (above); eight 4-foot cables				63.4 yrs

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