

# ROCKETPORT™

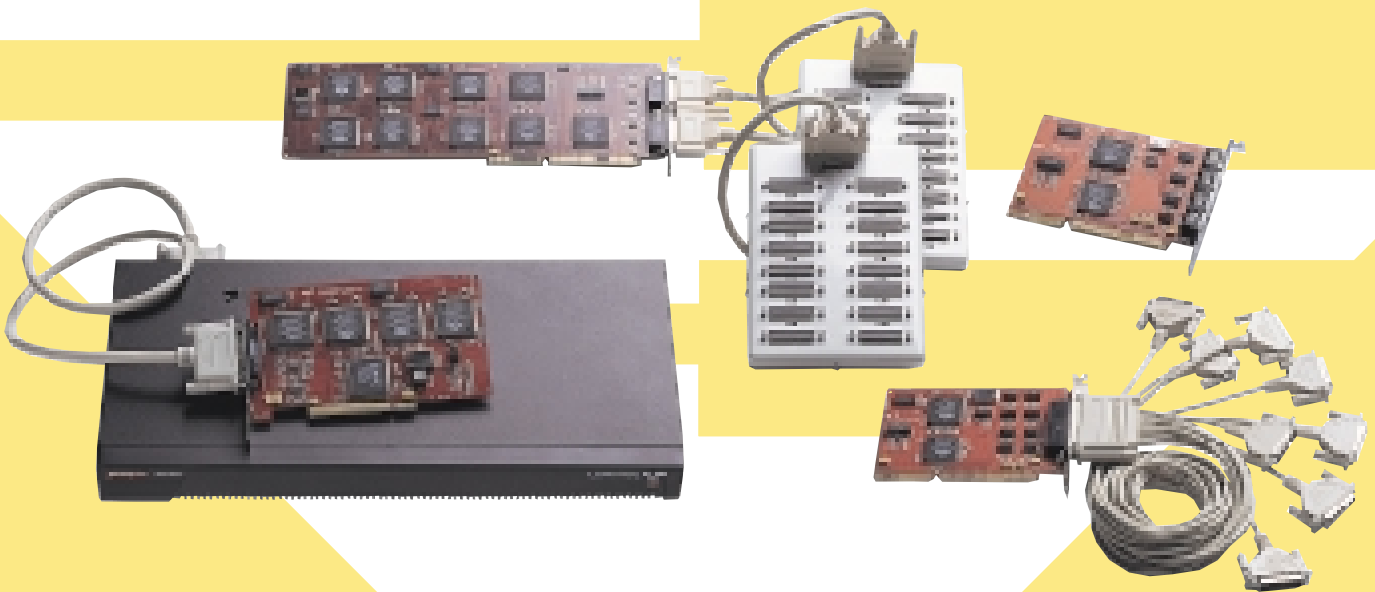
MULTI PORT SERIAL CARDS

## *High Speed Multiport Connectivity*

The RocketPort family of serial boards are more powerful, more reliable, easier to install and more cost effective than anything else on the market.

When installed in a PCI or ISA slot of a PC, the RocketPort can transmit and receive up to 230, 460 or 920 Kbps full duplex across all its ports simultaneously, depending on the model chosen. This means significantly greater amounts of data can be transferred enabling more work to be accomplished in a shorter time. In addition host CPU utilisation is minimised to allow more system resources to be available for running existing software applications.

This is brought about by the use of a dedicated on board 36 or 44MHz processor to ensure consistent application of power to each port. The use of I/O mapping eliminates memory mapping conflicts, making the RocketPort simple to install. The latest ASIC technology ensures the most reliable serial I/O performance.



The RocketPort family covers a wide range of controllers from 4 ports to 32 ports and a wide range of interface options including RS232, RS422, RS485 and current loop.

The driver range for the controllers is unmatched by any other multiport serial controller on the market. Drivers are available for all Windows operating systems, Novell, QNX 4, almost all versions of Unix and many other operating systems.



TM  
ROCKETPORT  
MULTI PORT SERIAL CARDS

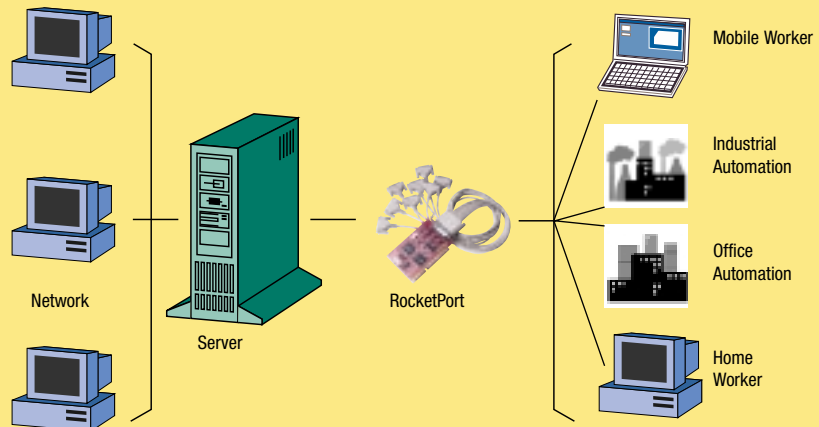
## Applications

Our products are used by system integrators and system builders as well as commercial, government and defence businesses of all sizes. The RocketPort range of controllers are widely used in the following environments.

- ◆ Industrial Control
- ◆ Electronic Point of Sale
- ◆ Security Systems
- ◆ Automatic Cash Dispensing
- ◆ Environmental Control Systems
- ◆ Computer Telephony Integration
- ◆ Satellite Links
- ◆ Remote Access

## General Specification

- ◆ Simple installation
- ◆ Up to 920Kbps data rate
- ◆ 4 to 32 ports on each controller
- ◆ One or no IRQ needed
- ◆ Up to 4 controllers per PC
- ◆ I/O mapping to eliminate memory conflicts
- ◆ Minimum CPU usage increasing time available for application programs
- ◆ Wide range of software drivers
- ◆ PCI/ISA available
- ◆ 36 or 44 MHz on-board processors (one for each 8 ports)



## Product Descriptions

You can choose from 4, 8, 16 and 32 port versions of the ISA/PCI RocketPort controllers.

- ◆ Standard **RocketPorts** are available as 4, 8, 16 and 32 port ISA controllers and 8, 16 and 32 port PCI controllers. They need a separate interface/s (see below) and can operate at speeds up to 230Kbps.
- ◆ **Quad/Octacable** for PCI or ISA slots. In RS232 the fan out cables are available with RJ45, DB25 or DB9 connectors. The RS422 has DB9 male connectors. No interface is required. Baud rate of up to 460Kbps.
- ◆ **RocketPort PCI RS422** is an 8 port card, that is supplied with a DB9 male interface or SMPTE 207M DB9 female interface with a 10 foot cable. Up to 460Kbps available.
- ◆ **RocketPort+** gives 920kbps full duplex across all ports. Fan out cables end in DB25, DB9 or RJ45. No interface is required.
- ◆ **RocketPort RJ** has RJ connectors on the board. The 4 port board has RJ45 connectors and is available in PCI or ISA. The 8 port ISA board has RJ11 connectors. No interface is required.
- ◆ **Rocket 485** has 8 ports; six are RS232 and two are jumper selectable as RS485 and can carry 32 components per line. 460Kbps available on all ports. One pin carries +5V. Full ESD protection. DB9 male connectors with a fan out cable or separate interface box.
- ◆ DB25 pin female **Interfaces** connect the controller to the serial devices. These operate as RS232 only, or RS232/422, selectable port by port. The RocketPort 32 uses two 16 port interfaces.

- ◆ There is also a **Rack Mounted Interface** (RS232) for the 16 & the 32 port controllers. This has RJ45 connectors and is 1U height.
- ◆ A **Universal Interface** (rack mounted) has been developed for RocketPort. This enables each port to be selected as RS232, RS422, RS423, RS485 or current loop.
- ◆ Free **Drivers** are available for all major operating systems.

## Product Support and Service Information

- ◆ **Product Support and Service Information** is available for all Control Products. They come with easy to use documentation.

For technical assistance call our support team +44 (0) 1869 323220.

Control offers a 30 day satisfaction guarantee on all products.

RocketPort devices have a 5 year limited warranty and the Universal Interface has a 1 year limited warranty.

- ◆ Dial into <http://www.comtrol.co.uk> for more product information, programs, device drivers, diagnostics, sample code etc.
- ◆ **Product Information** is also available from +44 (0) 1869 323220 or by e-mail: [info@comtrol.co.uk](mailto:info@comtrol.co.uk).



## RocketPort Conditions and Specification

Product	Heat Output	MTBF (years)	I-O ports available	Interfaces	Baud Rate (KB)		Current Consumption			Dimension (mm)
					RS232**	RS422**	+5VDC	+12VDC	-12VDC	
<b>ISA</b>										
4J*	4.8 w	85.3	4	RS-232	50 to 460.8	N/A	350 mA	100 mA	160 mA	159 x 107
8J*	4.8 w	84.4	8	RS-232	50 to 460.8	N/A	350 mA	100 mA	160 mA	159 x 107
4	5.2 w	78.5	4	RS-232 or RS-422	50 to 230.4	50 to 230.4	700 mA	65 mA	80 mA	206 x 107
8	5.2 w	78.5	8	RS-232 or RS-422	50 to 230.4	50 to 230.4	700 mA	105 mA	115 mA	206 x 107
16	7.7 w	56.4	16	RS-232 or RS-422	50 to 230.4	50 to 230.4	950 mA	210 mA	330 mA	206 x 107
32	15.4 w	33.6	32	RS-232 or R S-422	50 to 230.4	50 to 230.4	1.9 A	420 mA	660 mA	330 x 107
Quadable*	4.8 w	28.8	4	RS-232	50 to 460.8	N/A	350 mA	100 mA	160 mA	159 x 107
Octacable*	4.8 w	28.8	8	RS-232	50 to 460.8	N/A	350 mA	100 mA	160 mA	159 x 107
485	4.8 w	20.5	8 to 32	RS-232 or RS-485	50 to 460.8	N/A	350 mA	100 mA	160 mA	159 x 107
<b>PCI</b>										
4J	1.7 w	103.4	4	RS-232	50 to 460.8	N/A	200 mA	50 mA	10 mA	129 x 107
8	7.8 w	60.7	8	RS-232 or RS-422	50 to 230.4	50 to 230.4	940 mA	110 mA	160 mA	159 x 107
16	14.3 w	45.6	16	RS-232 or RS-422	50 to 230.4	50 to 230.4	600 mA	220 mA	320 mA	159 x 107
32	22.4 w	17.4	32	RS-232 or RS-422	50 to 230.4	50 to 230.4	1.9 A	440 mA	660 mA	183 x 107
Quadable*	5.1 w	23.5	4	RS-232 or RS-422	50 to 460.8	50 to 460.8	410 mA	100 mA	160 mA	142 x 107
Octacable*	5.3 w	23.5	8	RS-232 or RS-422	50 to 460.8	50 to 460.8	440 mA	100 mA	160 mA	140 x 107
RocketPort Plus*	5.7 w	17.9	4/8	RS-232	200 to 921.6	N/A	510 mA	110 mA	160 mA	165 x 107
PCI 422	4.2 w	55.8	8	RS-422	N/A	50 to 460.8	850 mA	zero	zero	124 x 107

\* RocketPort Plus, 4 & 8J, Quadable and Octacable boards require no separate interface. Connectors are installed on the board.

\*\* Speed is dependent upon the hardware configuration and operating system except for 4J, 8J and Quad/Octacable, models. Data bits per character are 7 or 8 and stop bits are 1 or 2.

## Interfaces

	Height	Width	Length	MTBF
RS232, DB25, 8 Port	15 mm	147 mm	122 mm	40.5 years
RS232, DB25, 16 port	15 mm	140 mm	203 mm	21.9 years
RS232/422, DB25, 4 port	15 mm	147 mm	122 mm	60.3 years
RS232/422, DB25, 8 port	15 mm	147 mm	135 mm	28.1 years
RS232/422, DB25, 16 port	15 mm	147 mm	216 mm	14.8 years
RS-422, DB9, 8 port	41 mm	94 mm	91 mm	
Universal 232/422/423/485/c.loop	45 mm	483 mm	203 mm	
RS232, RJ45, Rack Mount, 16 port	45 mm	483 mm	203 mm	37.1 years

## Common to all RocketPort products

### Conditions

Air temperature	System On 0 to 70° C	System Off -65 to 150° C
RocketPort Plus	System On 0 to 40° C	System Off -65 to 120° C
PCI 422	System On 0 to 40° C	System Off -20 to 85° C
Humidity (non-condensing)	System On 8 to 80%	System Off 20 to 80%
Altitude	0 to 3050 metres	

### Specifications

RocketPorts per system	4
Certification	CE Class A, FCC Class A, UL recognised, Canadian EMC, PCI 4J & PCI 422 FCC Class B
Available Interrupts	ISA (menu driven) None, 3, 4, 5, 9, 10, 11, 12 & 15 PCI (plug & play) BIOS
Surge Protection	Meets EIA 232E ESD, surge protection exceeding 10 KV, RocketPort Plus ESD surge protection exceeds 25 KV



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