



## Brainboxes UC-320 Universal PCI Low Profile 1 Port Velocity RS422 485



This half size card provides one serial port configurable as RS422 with and with-out hand-shaking, or RS485 full or half duplex. This card has on-board zener diodes giving transient spike protection to the inputs, making this card ideal for factory automation installations. The megabaud data transfer rates and the 128 byte deep FIFO, coupled with the RS485 Half Duplex Autogating guarantees uncompromising performance and fault-free use. The PCI RS422/485 Velocity card uses the 16750 UART, two generations beyond the industry standard 16550. The UART clock can be set through software to provide maximum baud rates of either 921,600 baud, 460,800 baud, 230,400 baud, or 115,200 baud (standard PC). Low-Profile PCI is a new PCI card standard for space-constrained system designs. Electronically identical to standard PCI, Low-Profile PCI is a form factor defining a shorter card and new mounting bracket.

The UC-320 uses Brainboxes new industry leading UART BB16PCI958 and supports both 3.3V / 5V standards. Increasingly, modern PCs are coming with 3.3V PCI slots. The change from 5V to 3.3V signalling on the PCI bus is a result of the technical advances made by leading PC manufacturers such as Dell, HP and IBM to increase system speed while reducing onboard PC power consumption. What this means is that many new PC systems no longer use 5V signalling on the PCI bus, and 5V-only PCI cards cannot be used in these PCs. As part of our continued commitment to designing and manufacturing leading edge serial RS232 technology, we now offer the Universal PCI range that can work in both 5V and 3.3V signalling environments. This allows new and existing customers to have an easy migration path to this new technology.

<b>Serial Ports</b>	1 x RS422/485, 9-pin D-Type (Male)
<b>Software Included</b>	Serial Solutions Device Driver CD contains software for Windows Server 2003, Windows XP, Windows 2000, Windows Millennium, Windows 98, Windows 95, Windows NT4 and Linux support. Windows Server 2003, Windows XP and Windows 2000 signed drivers.
<b>Operating Systems Supported</b>	Windows Server 2003, Windows XP, Windows 2000, Windows Millennium, Windows 98, Windows 95, Windows NT4 and Linux support
<b>Dimensions</b>	6.3cm (W) x 12.0cm (D) - Weight 0.097kg

### Features

- \* 1 RS422/485 Serial Ports selectable as RS422 or RS485
- \* On-board zener diodes offer transient spike protection
- \* On board terminating resistors with full fail-safe open / short circuit protection
- \* Sample Programs, Test & Terminal software - all with source code
- \* Full PCI Bus - Plug & Play
- \* Up to 128byte transmit and receive FIFO



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- \* Greater control of FIFO trigger levels, and readable FIFO levels for improved transfer efficiency
- \* Drivers for all popular operating systems
- \* Supports both 3.3V / 5V standards
- \* PCI 2.3 Compliant
- \* RS422/485 Options: RS422: Automatic CTS/RTS flow control, software enabled RS485 - Automatic Hardware half duplex RS485 Gating 485 FEATURES: RxD-/TxD- multiplex jumpers  
Wiring Schemes: One talker, many listeners Many talkers/listeners full dup

## Specification

### General

This half size card provides one serial port configurable as RS422 with and with-out hand-shaking, or RS485 full or half duplex. This card has on-board zener diodes giving transient spike protection to the inputs, making this card ideal for factory automation installations. The megabaud data transfer rates and the 128 byte deep FIFO, coupled with the RS485 Half Duplex Autogating guarantees uncompromising performance and fault-free use. The PCI RS422/485 Velocity card uses the 16750 UART, two generations beyond the industry standard 16550. The UART clock can be set through software to provide maximum baud rates of either 921,600 baud, 460,800 baud, 230,400 baud, or 115,200 baud (standard PC). Low-Profile PCI is a new PCI card standard for space-constrained system designs. Electronically identical to standard PCI, Low-Profile PCI is a form factor defining a shorter card and new mounting bracket.

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### Chipset Emulation

UART 16750+

### Communications

Baud Rate Up to 921.6 Kbps



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Protection	+ve spikes >12V -ve spikes > 6.8V
Data Bits	5, 6, 7, 8
Stop Bits	1 or 2
Parity	Odd, even, none, mark or space

### Interfaces Ports

Serial Ports	1 x RS422/485, 9-pin D-Type (Male)
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### System

Software Included	Serial Solutions Device Driver CD contains software for Windows Server 2003, Windows XP, Windows 2000, Windows Millennium, Windows 98, Windows 95, Windows NT4 and Linux support. Windows Server 2003, Windows XP and Windows 2000 signed drivers.
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### System Requirements

Operating Systems Supported	Windows Server 2003, Windows XP, Windows 2000, Windows Millennium, Windows 98, Windows 95, Windows NT4 and Linux support
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### Physical

Height of Bracket	8cm
Dimensions	6.3cm (W) x 12.0cm (D) - Weight 0.097kg



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### **About Memory Express**

Although we started out selling just Memory the best part of fifteen years ago, we have diversified organically over the years at the request of our customers. We specialise in Networking, Storage and Disaster Recovery and have the knowledge, experience and strategic partnerships to provide you with the service and value you demand - quality products, reasonably priced and delivered on time.

Memory Express can offer you a full range of installation and configuration services for hardware and software as well as detailed, accurate advice on all aspects of your IT projects. You'll be glad to know that we don't have a room full of school leavers trying to sell products they don't understand - all our staff are seasoned IT specialists and have an average length of service of over ten years. We won't just push you towards the solution we feel like selling; we'll help you to find the one you need.

Meanwhile, online, we offer one of the largest product ranges of any UK IT supplier. Showing near live stock, in depth product information and keen pricing, we're sure you'll find what you need. We also have matched memory upgrades for over 50,000 models of computer, server, printer, phone and camera, guaranteeing you the right memory, first time. All this is backed up by the same great service you'd expect when dealing with us over the phone. For our regular business customers, we provide T3, our corporate purchasing portal which provides a truly corporate focused buying experience.

We're conveniently located in Park Royal, London's Technology Business Park, allowing us to reach all areas of the UK quickly and efficiently. Many of our City based corporate clients benefit from same day delivery and we can offer next day delivery to established customers throughout the British Isles. Online delivery tracking and status information means that you need not worry about the whereabouts of your order.

We're proud to have built up a wide variety of partnerships with quality vendors and many of our staff hold certifications from top tier manufacturers including Microsoft, Acronis, Symantec and VMWare.

Our clients vary in size from SMEs to many of the UK's largest corporates, government departments, schools and universities, and we're pleased to say that most have been our customers for many, many years - we believe in long term business relationships, not turning a quick profit. Why not contact us now to see how we can help you get the quality of service they already enjoy?