

# PCI DUAL Velocity RS422/485

## DESCRIPTION

Two half size cards provides each two serial ports independently configurable as RS422 with and without handshaking, or RS485 full or half duplex. The CC-310 has all the features of the CC-313 but with the added benefit of opto isolation on all RS422/485 lines.

Both cards have on-board zener diodes giving transient spike protection to the inputs, making these cards 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 16950 UART, four 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).

## SOFTWARE

Serial Solutions Device Driver CD contains software for Windows 95, Windows 98, Windows NT3.51, Windows NT4, Windows 3.x, DOS and OS/2.

Informative manuals and sample programs are supplied with full source code on CD!

## AUTOGATING

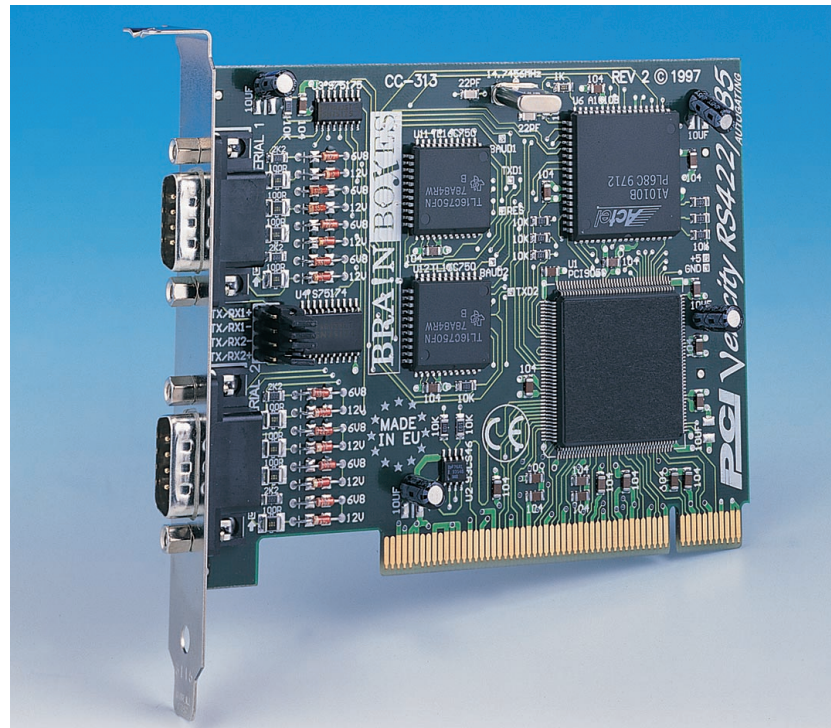
Autogating, unique to the Velocity RS422/485 cards, is implemented in the cards hardware to automatically detect the start and finish of data transmission. This guarantees a rapid "Receive turnaround" in half duplex operations, therefore preventing data loss.

# STANDARD VERSION

**1 Megabaud Guaranteed  
128 Byte Fifos**

**Autogating for hassle free  
half duplex operations**

*No Compromise*



## ORDER

DESCRIPTION	CODE
PCI DUAL VELOCITY RS422/485	CC-313
PCI DUAL VELOCITY OPTO RS422/485	CC-310

"1 Megabaud Serial Communications"

# PCI DUAL Velocity OPTO RS422/485

## OPTICAL ISOLATION

Optical isolation provides greater protection from electrical current surges to both the card itself and the PC. It improves noise immunity by isolating the PC from the card's transmit ground.

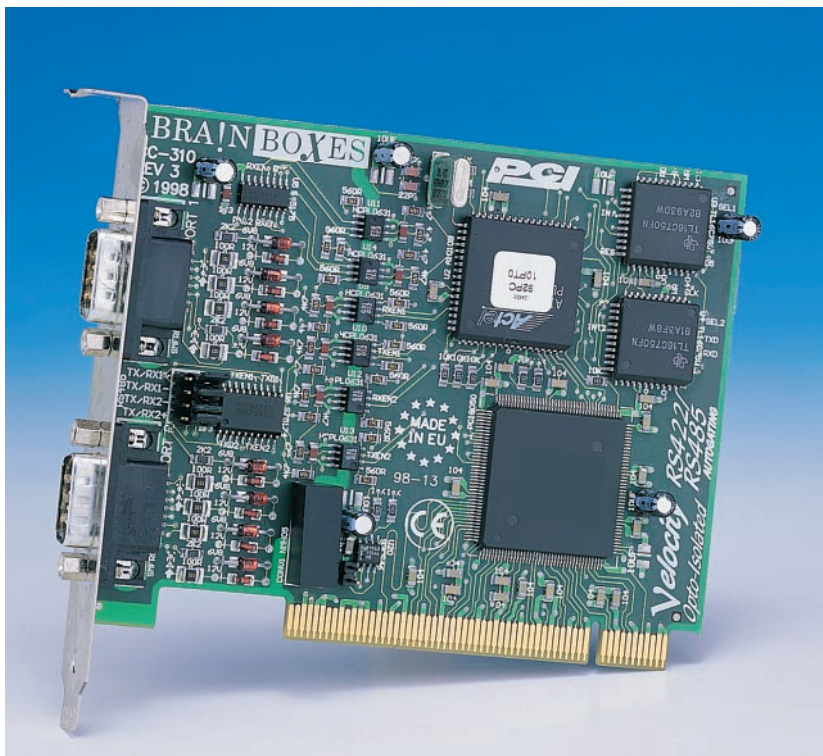
## OPTO-ISOLATED

±1500Volt DC/ 1000Volts AC

**1 Megabaud Guaranteed  
128 Byte Fifos**

**Autogating for hassle free  
half duplex operations**

*No Compromise*



## FEATURES

- 2 RS422/485 Serial Ports each selectable as RS422 or RS485
- Massive 128 byte FIFO per port
- 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 auto configuring interrupt and address

### HANDSHAKE 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 duplex
- Many talkers/listeners half duplex

## SPECIFICATION

- Ports: 2 x RS422/485
- UART: 16950
- Baud rates: Up to 921,600
- Protection: +ve spikes >12V  
-ve spikes > 6.8V
- Data Bits: 5,6,7 or 8
- Stop Bits: 1 or 2
- Parity: Odd, even, none, mark or space
- Power: 550mA @ 5V
- Weight: 0.097Kg
- Size: 9.3 x 12cm

## OPTICAL ISOLATION ON CC-310

- Opto-Isolation: ±1500Volt DC/ 1000Volts AC
- Optical Isolation: 1500 Volts DC  
1000 Volts AC