brainboxes
www.brainboxes.com

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NQA ISO9001 REGISTERED COMPANY

UKAS QUALITY MANAGEMENT 015

Elektra 05 European Electronics Industry Awards
WINNER Manufacturer of the Year
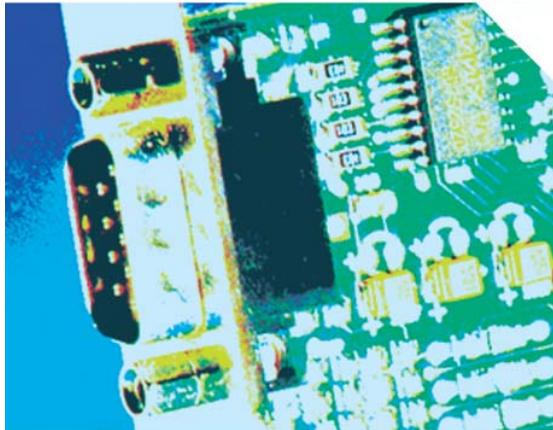
Microsoft CERTIFIED Partner

CC-525 & CC-530
PCI DUAL ULTRA RS422/485

SERIAL CARDS ENGINEERED TO EXCEED EXPECTATIONS

Description

PCI card providing 2 industry standard 9 pin RS422/485 serial COM ports in a single PCI slot. On board Zener diodes ensure electrical protection.

Stunning ULTRA 15 or 18 megabaud data transfer rates!! And 128 byte deep FIFO guarantees uncompromising performance and fault-free use.

With Brainboxes Lifetime Support and 3 year warranty!

Software

Microsoft signed drivers (easy installation & robust operation) for:

- o   Windows Server 2003 x32 bit & x64 bit Editions
- o   Windows XP x32 bit & x64 bit Editions
- o   Windows 2000.

64 Bit Drivers

Fully tested drivers also included for:

- o   Windows Me, Windows 98 & 95, Windows NT.

As well as: full product documentation, a thorough troubleshooting guide and terminal software. And detailed sample source code for all popular programming languages.

Need support for other operating systems? Please call.
Find out about Brainboxes excellent driver configurability:Click Here

Features

- 2 Port RS422/485
- 32 bit and 64 bit PCI compatible
- 128 Byte FIFO with user definable trigger level
- 15 and 18 MEGABAUD data rate options
- Standard Profile
- Full Duplex and Half Duplex Autogating
- Transient Spike Protection
- Drivers for all popular operating systems
- Sample Programs, Test & Terminal software - all with source code
- Lifetime Support and 3 year Warranty

Click on each feature to find similar products
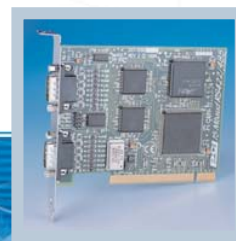
Options

15 Megabaud:
CC-530

18 Megabaud:
CC-525

ORDER

Description	Code
PCI DUAL ULTRA RS422/485 (15 MEGABAUD)	CC-530
PCI DUAL ULTRA RS422/485 (18 MEGABAUD)	CC-525

TEL: +44 (0) 151 220 2500   EMAIL: SALES@BRAINBOXES.COM   WEB: WWW.BRAINBOXES.COM

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CC-525
CC-530

PCI DUAL ULTRA RS422/485

Product Code	UC-313	
Serial Port		

RS422/485
Pinout (9 pin Male)
1 2 3 4 5

Pin 1	TXD-
Pin 2	TXD+
Pin 3	RTS-
Pin 4	RTS+
Pin 5	GND
Pin 6	RXD-
Pin 7	RXD+
Pin 8	CTS-
Pin 9	CTS+

6 7 8 9

	Ports	2 Port RS422/485
	Connector	DB9 (9 Pin Male)
	UART type	16C950 UART
	FIFO size	128 Byte with user definable trigger level
	Transmitted Signal Strength	+/- 5 Volts open circuit RS422/485 Standard
	Operating Distance	4000 ft (1200 metres) RS422/485 Standard
	Electrical Protection	+ve transient spikes > 12V, -ve transient spikes >6.8V ,
Serial Port Settings		
	Baud Rate (bits per second)	up to 15,000,000 (CC-530) or up to 18,000,000 (CC-525)
	Data Bits	5,6,7 or 8
	Parity	Odd, Even, None, Mark or Space
	Stop Bits	1, 1.5 or 2
	Flow Control	CTS/RTS
	IRQs	Plug and Play - Shared interrupts for all ports
	Tx/Rx Modes	Full Duplex, Half Duplex Autogating
	Connection Schemes	Point to Point,
		One talker; many listeners, (32 Max)
		Many talkers / listeners Half Duplex (32 Max)
	RS485 Gating	Hardware Autogating, TxD always / RTS true enabled,
		RxD always enabled, RxD RTS true disabled, CTS forced true
General		
	Bracket Profile	Standard
	PCB Layers	4
	Power	360mA @ 5V
	Weight	0.091Kg
	Size	95 x 125 mm
Interface		
	BUS Compatibility	32/64 bit PCI
	OS Compatibility	Windows 98/ NT4/ 2000/ XP/ Server 2003
		Windows XP x64 bit Edition / Windows Server 2003 x64 bit
		Linux
	PCI Compliance	Version 2.2
Approvals & Accreditations	C€ FCC UL	UL, EMC: CE, FCC, PCI Power Management 1.1 Compliant, PCI 2.2 Compliant
Box Contents		Installation CD including manual, Microsoft signed drivers, utilities and sample programs with source code UNIVERSAL ULTRA VELOCITY RS422/485 Installation Guide
OEM option		Available for bulk buy OEM
Product Support		Lifetime Email and Phone Support from Fully qualified, friendly staff 40 hours a week
Warranty		3 years
Made In		Manufactured in the UK by Brainboxes Winner 2005 European Electronics Industry Awards "Manufacturer of the Year"
Customisable		Brainboxes operate a "Perfect Fit Custom Design" policy for volume users More Info: CLICK HERE

CC-525
CC-530

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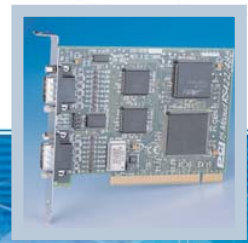
PCI DUAL ULTRA RS422/485

Glossary: Product Features Explained

ULTRA Baud Rates

This PCI card suports ULTRA baud rates. Up to 18,000,000 baud. By comparison many RS422/485 cards can only achieve a max data rate of 115,200 baud. Brainboxes ULTRA cards are over 150 times faster!

Autogating

When the device is set to half duplex mode, transmitted and received data is sent across the same signal lines. Autogating means the Brainboxes card knows when to 'listen' for data and when to transmit data, with a quick and automatic hardware switch between the 2 modes. This is much faster than software switching and ensures no data loss due to turnaround delay.
More Info: Click Here

Electrical Protection

All Brainboxes RS422/485 cards have transient spike protection. This protects against noise on the signal line which can be created by: electrical surges on the other device, nearby magnetic field interactions and background noise. Assuring safe and reliable operation in almost any environment.

PCI Compliant

All Brainboxes PCI cards are fully PCI version 2.2 compliant, in accordance with the PCI-Special Interest Group (PCI-SIG).

Large FIFO

FIFO means First In First Out, a FIFO is memory space on the Brainboxes card. A larger FIFO allows more memory space for buffering data, so calls to the computer processor are less frequent. This significantly increases data throughput and improves CPU availability for other applications.
More info: Click Here

4 Layer PCB

Printed Circuit Board with 4 layers of circuitry complies with the PCI SIG best practice guideline and ensures a more reliable card. 1 layer is for power and 1 for ground which leads to greater EMC shielding for the signals. This ultimately gives greater signal integrity for sensitive timing applications.

Surface Mount Components

Most components on a Brainboxes card are placed by a surface mount machine. The surface mount machine allows for highly accurate and fast production of Brainboxes cards. Orders can be met quickly, reliably and with outstanding quality.

Capacitors

As required by the PCI-SIG all Brainboxes cards have capacitors connected to all the power pins on the PCI connector, near to the connector. This ensures that the electrical power rails on the Brainboxes card stay at the right voltage, regardless of the power demands placed on them.   Data signals keep their integrity.