

There's so much more to Brainboxes

To enjoy the full benefits of Brainboxes and to find out more information, contact **+44 (0)151 220 2500** or visit **www.brainboxes.com**

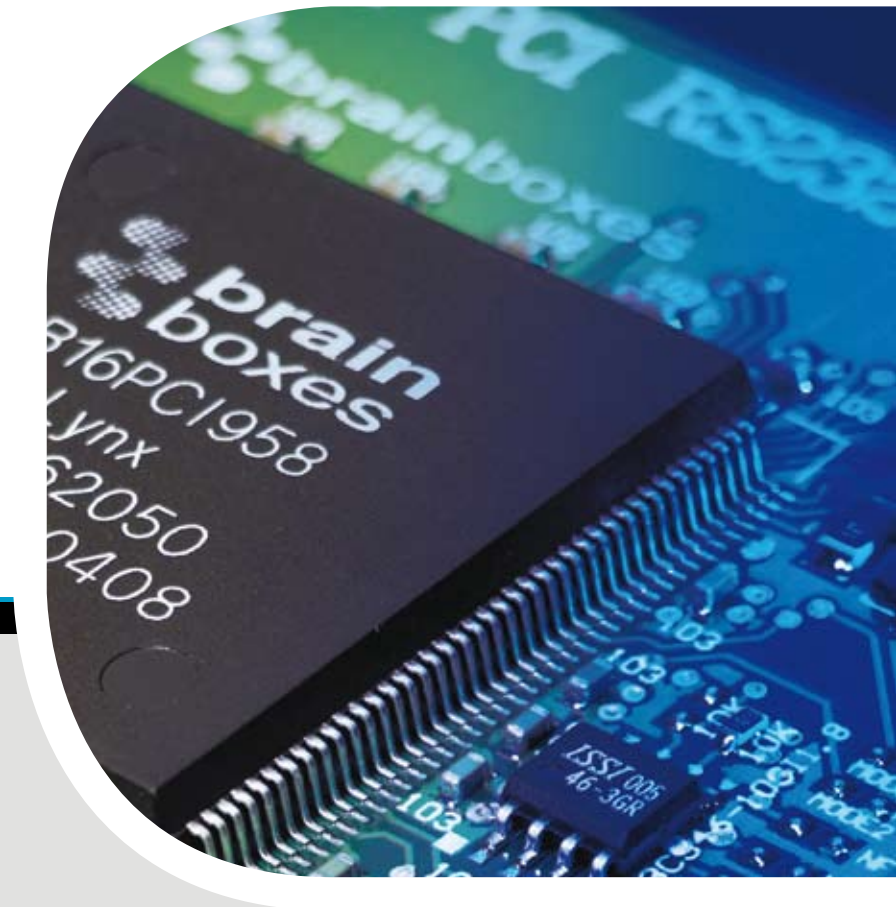
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Brainboxes Products & Applications

Serial: RS232 & RS422/485

- ExpressCard
- PCI Express
- PCI & Low Profile PCI

Bluetooth:

- Serial Converters
- CompactFlash / PCMCIA
- USB





Directors Eamonn and Patricia Walsh collect Best Practice Manufacturing Award 2007 together with production team

Our Success Continues

We continually strive to meet the highest standards in product design, manufacture, and support, but just as important are the partnership relationships we build.”

Eamonn Walsh, Chairman and Technical Director

Brainboxes is dedicated to developing key partnerships with channel partners, system builders and OEMs. A world leader in design, manufacture and support of serial connectivity solutions, our proven expertise, investment in R&D and industry leading accreditations lead to our products being selected time after time for industrial and mission critical applications.

Passion and Expertise

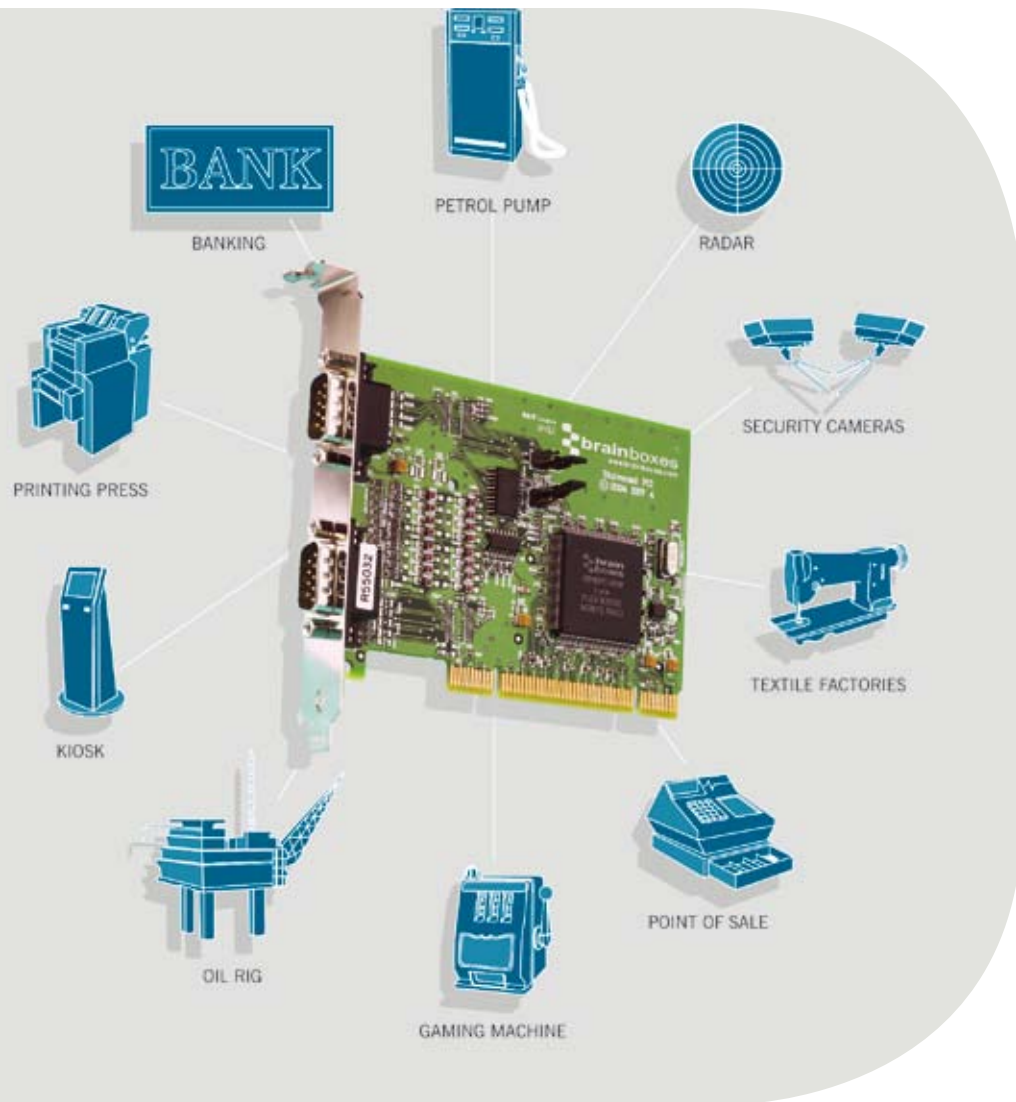
Complete, in-house, connectivity expertise at your disposal

Brainboxes has a long history of developing strong working relationships with systems builders, OEMs, and PC manufacturers. As a customer you benefit from a dedicated account manager coordinating access to design, manufacture and technical support teams effectively extending your internal capabilities.

Our in-house team of hardware and software design engineers have the expertise to deliver “custom design - perfect fit” products exactly as the application demands. From chip level to board level and from concept to install we guarantee a ‘fit and forget’ customer user experience, ensuring low total cost of ownership.

Brainboxes’ in-house manufacturing facility has the capacity and ramp up capability to deliver your demanding schedules on time in full through proven rollout management. Meeting the highest industry accreditations of quality and safety adds to the list of benefits of dealing with Brainboxes, especially in applications where systems failure is not an option.

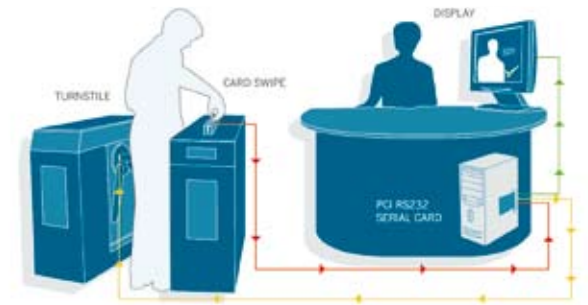
- In-house custom design (chip level to board level)
- Award winning in-house manufacture
- Support from highly qualified trained engineers
- Lean and Six Sigma driven quality
- Industry standard accreditations
- Proven expertise since 1984
- Passion in all that we do



Typical Serial Applications

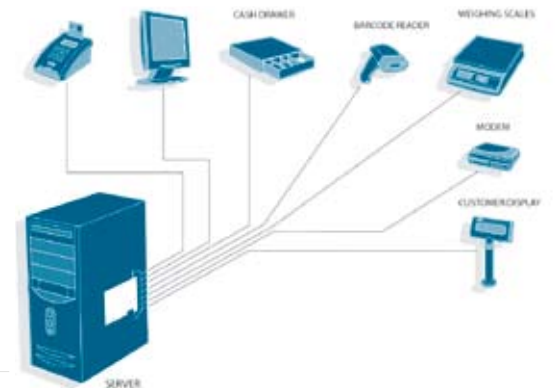
IDENTIFICATION

Fitness clubs, night clubs and other venues requiring ID, use swipe card readers connected to a PC using a Brainboxes RS232 card. The same card will also connect a touchscreen and a turnstile controller.



RETAIL

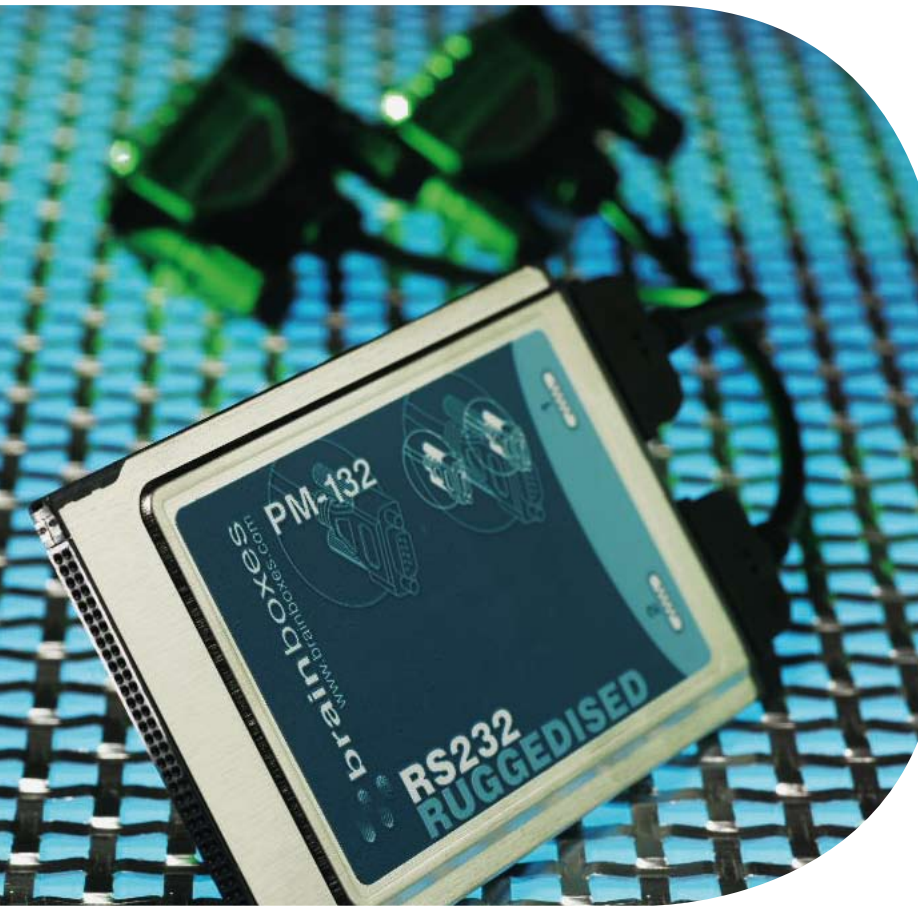
Brainboxes RS232 serial cards are used widely in PC based point of sale equipment. They provide a cost effective way to connect equipment such as displays, sales, credit card readers etc. Cards providing power to peripherals are also available.



BANKING

RS232 serial cards are used by major banks to connect cheque readers and cash counters to PCs. Brainboxes cards are chosen because of high reliability.





PCMCIA Serial Cards

PCMCIA SERIAL CARDS	PORTS	CODE
Removable Cables		
PCMCIA 1 PORT RS232	1 x 9 pin	PM-020
PCMCIA 2 PORT RS232	2 x 9 pin	PM-010
PCMCIA 1 PORT RS422/485	1 x 9 pin	PM-120
PCMCIA 2 PORT RS422/485	2 x 9 pin	PM-121
Secured Cables		
PCMCIA 1 PORT RS232 RUGGEDIZED	1 x 9 pin	PM-143
PCMCIA 2 PORT RS232 RUGGEDIZED	2 x 9 pin	PM-132
PCMCIA 1 PORT RS422/485 RUGGEDIZED	1 x 9 pin	PM-154

Increased performance and falling prices are making laptops and handheld PCs the standard tools for business. They are powerful enough to replace desktop computers; portable enough to be used by field sales staff; and versatile enough for service engineers. Brainboxes PCMCIA cards are designed to take full advantage of this mobile processing power. The majority of the range are based on Brainboxes' high performance CF16C950+ chip. They have all the features of the high performance PCI cards, allowing you to use your laptop as a true desktop replacement. Available as either RS232 or RS422/485 Velocity cards with speeds of up to 921,600 baud, they are ideal for anyone needing fast access to serial data from their laptop.

Select either convenient removable cables or ruggedized cables that are permanently attached. All cables terminate in industry standard 9 pin male 'D' connectors.

True COM ports

Brainboxes' PCMCIA cards create real COM ports within Windows. This means that they will work with all applications.

Features common across the range

- Maximum baud rate: up to 921,600 with true 1Mbit line drivers
- FIFO buffer per port: 128 byte
- CE/FCC approved
- Plug & Play - auto configuring of interrupt and address
- Use in tablet, desktop, laptop, and Pocket PCs
- Option of secured or removable cables
- Type II PCMCIA

RS422/485 Specific

- Configurable as full or half duplex
- Hardware autogating for guaranteed no data loss in lower cost half duplex cabling systems
- Type II PCMCIA

Supported Operating Systems

- Windows Vista and XP signed drivers (32bit & 64bit)
- Windows 2000



PM-121 PCMCIA
2 Port RS422/485

Typical Applications

- Field based engineers
- Surveying equipment
- Test & measurement instrumentation
- Mobile data collection
- GPS equipment
- Metering
- Barcode readers
- Mobile phone, PDA, digital camera connections
- Label printers
- Motion sensors
- Controlling security cameras
- Access control systems
- Controlling robotic equipment



PM-020 PCMCIA
1 Port RS232



ExpressCard Serial

Welcome to the next generation of PC Card technology. ExpressCard slots are the future of add-on connectivity for laptops. There is continual pressure for laptops to reduce in size and extend battery life. ExpressCards are smaller than current PCMCIA cards and they also have advanced power management features that make them more efficient at saving battery life. They are also hot swappable, so the PC can stay active when expansion options are added or removed, enabling communications, memory and security options to be easily added to a PC with minimum impact.

ExpressCard products can be based on either USB or PCI Express communications. The Brainboxes ExpressCard range contains both options, giving you maximum choice for your application. The PCMCIA to ExpressCard Adaptor can be used with the VX range or any other USB based ExpressCard.

VX Range

Lower cost range based on the USB bus. The cards use the exclusive Boost.USB software developed and rigorously tested by Brainboxes to provide excellent compatibility with legacy serial applications.

XC Range

PCI Express based interface offering true communication ports where compatibility and performance cannot be compromised. These cards have the proven high performance of the PCMCIA range.

Features common across the range

- Maximum baud rate: up to 921,600 with true 1Mbit line drivers
- FIFO buffer per port: 128 byte (VX), 256 byte (XC Elite)
- CE/FCC Compliant
- Plug & Play - auto configuring of interrupt and address
- Use in tablet, desktop, and laptop

RS422/485 Specific:

- Configurable as full or half duplex
- Hardware autogating for guaranteed no data loss in cheaper half duplex cabling systems

Supported Operating Systems

- Windows Vista and Windows XP signed drivers (32bit & 64bit)

EXPRESSCARD SERIAL	PORTS	CODE
Based on USB Technology		
EXPRESSCARD 1 PORT RS232 (U)	1 x 9 pin	VX-001
EXPRESSCARD 2 PORT RS232 (U)	2 x 9 pin	VX-012
EXPRESSCARD 1 PORT RS422/485 (U)	1 x 9 pin	VX-023
EXPRESSCARD 2 PORT RS422/485 (U)	2 x 9 pin	VX-034
PCMCIA TO EXPRESSCARD ADAPTOR	n/a	PM-200
Based on PCI Express Technology		
EXPRESSCARD ELITE 1 PORT RS232 (P)	1 x 9 pin	XC-020
EXPRESSCARD ELITE 1 PORT RS422/485 (P)	1 x 9 pin	XC-120

Typical Applications

- Field based engineers
- Surveying equipment
- Test & measurement instrumentation
- Mobile data collection
- GPS equipment
- Metering
- Barcode readers
- Mobile phone, PDA, digital camera connections
- Label printers
- Motion sensors
- Controlling security cameras
- Access control systems
- Controlling robotic equipment



VX-001 ExpressCard
1 Port RS232 (U)



PM-200
PCMCIA to ExpressCard Adaptor
1 Port RS232 (U)

New Products



PCI Express Serial Cards

PCI Express is the next generation of connectivity standard within PCs. It is based on the current PCI bus, but is faster and requires less power. PCI Express (PCIe) slots are gradually replacing PCI slots within desktop PCs and servers and it is estimated PCIe slots will have replaced PCI in the majority of PCs by late 2009. By providing the PX range Brainboxes has ensured a smooth transition for customers from one technology to the next.

Multiport (cabled) low profile cards are supplied with fully moulded cables.

True COM ports

Brainboxes' PCI Express cards create real COM ports within Windows. This means that they will work with all applications.

Features common across the range

- Maximum baud rate: 921,600 with true 1Mbit line drivers
- FIFO buffer per port: 256 byte (1-4 ports), 32byte (8 ports)
- CE/FCC Compliant
- Plug & Play - auto configuring of interrupt and address

Supported Operating Systems

- Windows Vista, Server 2008, Server 2003, and XP signed drivers (32bit & 64bit)



PX-279 PCI Express
8 Port RS232

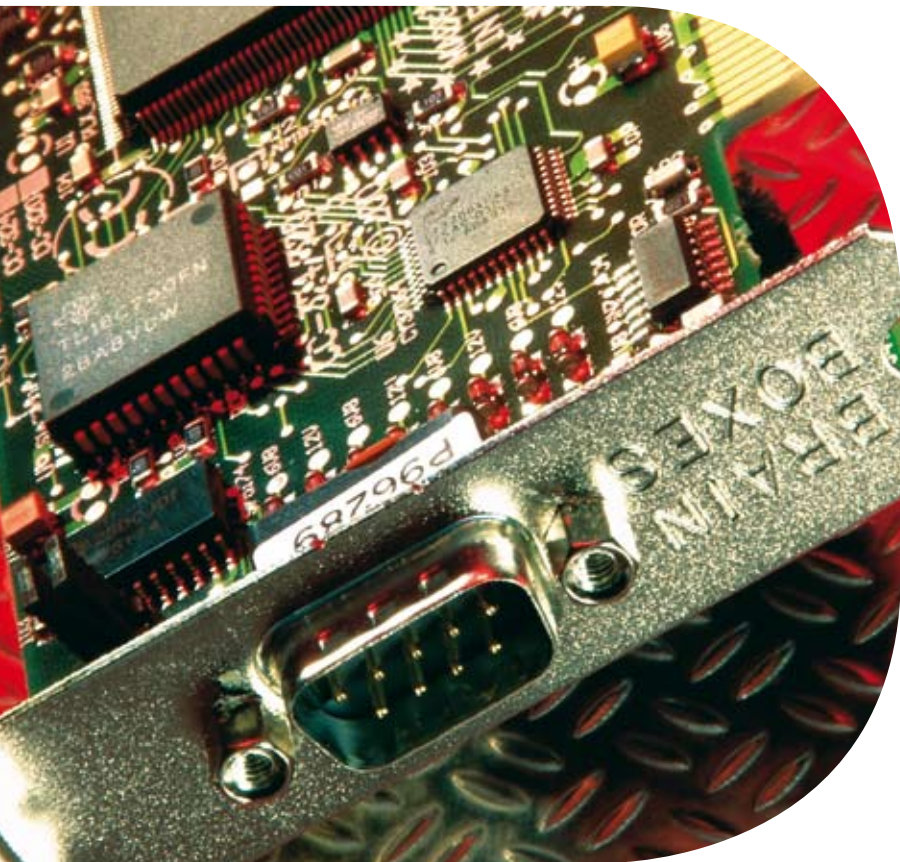


PX-246 PCI Express
1 Port RS232

PCI EXPRESS SERIAL CARDS	PORTS	CODE
PCI EXPRESS 1 PORT LOW PROFILE RS232	1 x 9 pin	PX-235
PCI EXPRESS 1+1 PORT RS232	2 x 9 pin	PX-101
PCI EXPRESS 2 PORT RS232	2 x 9 pin	PX-257
PCI EXPRESS 3 PORT RS232	3 x 9 pin	PX-431
PCI EXPRESS 3 + 1 PORT RS232	4 x 9 pin	PX-420
PCI EXPRESS 4 PORT RS232	4 x 9 pin	PX-268
PCI EXPRESS 4 PORT LOW PROFILE RS232	4 x 9 pin	PX-260
PCI EXPRESS 8 PORT RS232	8 x 9 pin	PX-279
PCI EXPRESS 8 PORT RS232	8 x 25 pin	PX-275
PCI EXPRESS 1 PORT RS232	1 x 9 pin	PX-246
PCI EXPRESS 1 PORT LOW PROFILE RS422/485	1 x 9 pin	PX-320
PCI EXPRESS 1 PORT RS422/485	1 x 9 pin	PX-324

Typical Applications

- Test & measurement instrumentation
- Data collection
- GPS equipment
- Barcode readers
- Label printers
- Touch screens
- Motion sensors
- Controlling security cameras
- Access control equipment
- Gaming machines
- Weighing scales
- Credit card readers
- Display equipment
- Controlling robotic equipment
- Cheque readers
- Cash counters
- PIN pads
- Cash drawers
- Smart card readers
- Plotters



Low Profile PCI RS232 Serial Cards

Low profile PCI is similar to standard PCI in terms of protocols, signals, and drivers, but uses a more compact form factor with a shorter raw card and new mounting bracket. PCs with low profile PCI are especially popular in the hotel, banking, and retail industry because of their reduced footprint. They are used to connect peripheral devices such as cheque readers, credit card readers and barcode readers.

All the products on this page are based on Brainboxes high performance LYNX chip with massive 128byte FIFO buffers to ensure smooth and reliable data transfer. Multiport (cabled) low profile cards are supplied with fully moulded cables.

True COM ports

Brainboxes' low profile PCI cards create real COM ports within Windows. This means that they will work with all applications.

Features common across the range

- Universal PCI (3.3V and 5V)
- Maximum baud rate: 115,200
- FIFO buffer per port: 128byte (1 & 2 ports), 64 byte (4 ports)
- CE/FCC Compliant
- Plug & Play - auto configuring of interrupt and address



UC-101 Universal PCI
2 Port Low Profile RS232

Supported Operating Systems

- Windows Vista, Server 2008, Server 2003, and XP signed drivers (32bit & 64bit)
- Windows 2000, NT, Millennium, 98, 95
- OS/2, DOS*, Linux*

* Limited support



UC-157 Universal PCI
Low Profile Parallel Printer Port

LOW PROFILE PCI SERIAL CARDS	PORTS	CODE
UNIVERSAL PCI 1 PORT LOW PROFILE RS232	1 x 9 pin	UC-235
UNIVERSAL PCI LOW PROFILE LPT	1 x LPT	UC-157
UNIVERSAL PCI 1+1 PORT RS232	2 x 9 pin	UC-101
UNIVERSAL PCI 1+1 PORT LOW PROFILE RS232 + LPT	2 x 9 pin 1 x LPT	UC-203
UNIVERSAL PCI 2 PORT LOW PROFILE RS232	2 x 9 pin	UC-253
UNIVERSAL PCI 4 PORT LOW PROFILE RS232	4 x 9 pin	UC-260
UNIVERSAL PCI 4 PORT LOW PROFILE RS232	4 x 25 pin	UC-271

Typical Applications

- Test & measurement instrumentation
- Data collection
- GPS equipment
- Barcode readers
- Label / receipt printers
- Touch screens
- Motion sensors
- Controlling security cameras
- Access control equipment
- Gaming machines
- Weighing scales
- Credit card readers
- Display equipment
- Controlling robotic equipment
- Cheque readers
- Cash counters
- PIN pads
- Cash drawers
- Smart card readers
- Plotters



PCI RS232 & LPT Serial Cards Standard & Velocity

RS232 is one of the best-known industry standards, used to connect literally millions of devices to PCs. All Brainboxes serial cards are host processor controlled, giving the best performance possible with virtually no latency in today's high speed machines. The standard PCI 2 Port RS232 cards have the option to add an extra parallel port. They are ideal for connecting barcode scanners, PIN pads, external modems, label printers, or any other RS232 device.

All the products on this page are based on Brainboxes high performance LYNX chip with massive 128byte FIFO buffers to ensure smooth and reliable data transfer.

True COM ports

Brainboxes' PCI cards create real COM ports within Windows. This means that they will work with all applications.

Features common across the range

- Universal PCI (3.3V and 5V)
- Maximum baud rate: 115,200 (standard), 921,600 with true 1Mbit line drivers (Velocity)
- FIFO buffer per port: 128 byte (1 & 2 ports), 64 byte (4 ports)
- CE/FCC Compliant
- Plug & Play - auto configuring of interrupt and address



UC-420 Universal PCI
3 + 1 Port RS232

Supported Operating Systems

- Windows Vista, Server 2008, Server 2003, and XP signed drivers (32bit & 64bit)
- Windows 2000, NT, Millennium, 98, 95
- OS/2, DOS*, Linux*

* Limited support

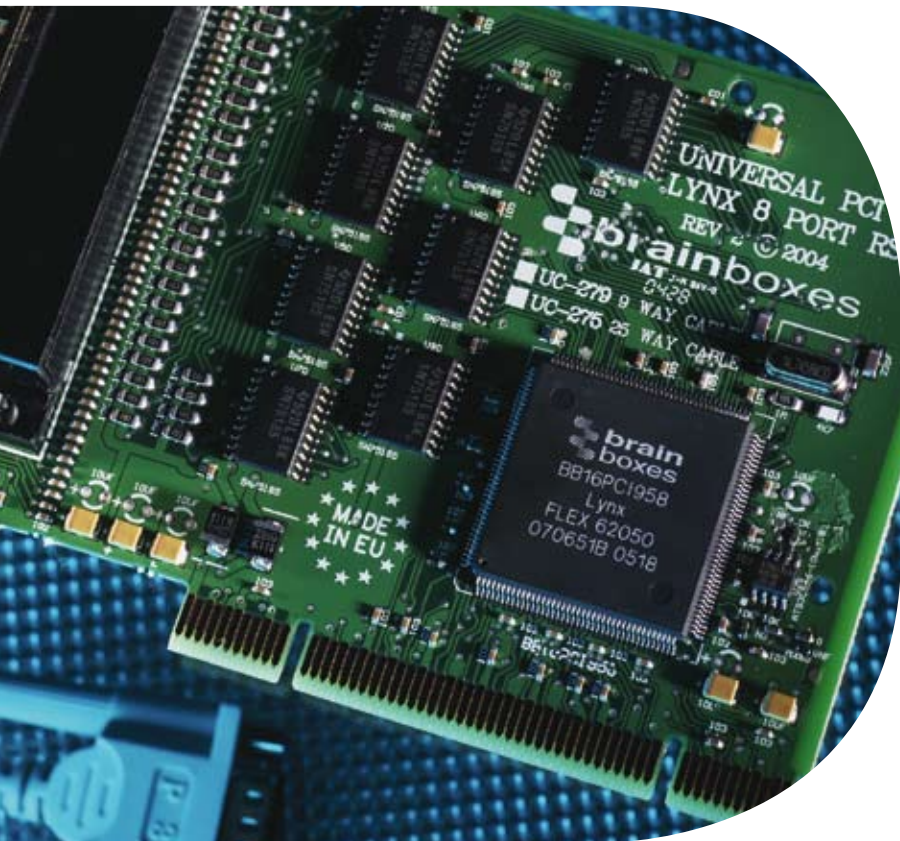


UC-475 Universal PCI
LPT + 2 Port RS232

PCI RS232 SERIAL CARDS	PORTS	CODE
UNIVERSAL PCI 1 PORT RS232	1 x 9 pin	UC-246
UNIVERSAL PCI LPT	1 x LPT	UC-146
UNIVERSAL 2 PORT RS232	2 x 9 pin	UC-257
UNIVERSAL PCI 4 PORT VELOCITY RS232	2 x 9 pin	UC-302
UNIVERSAL PCI LPT + 2 PORT RS232	1 x LPT & 2 x 9 pin	UC-475
UNIVERSAL PCI 3 PORT RS232	3 x 9 pin	UC-431
UNIVERSAL PCI 3+1 PORT RS232	4 x 9 pin	UC-420

Typical Applications

- Test & measurement instrumentation
- Data collection
- GPS equipment
- Barcode readers
- Label printers
- Touch screens
- Motion sensors
- Controlling security cameras
- Access control equipment
- Gaming machines
- Weighing scales
- Credit card readers
- Display equipment
- Controlling robotic equipment
- Cheque readers
- Cash counters
- PIN pads
- Cash drawers
- Smart card readers
- Plotters



PCI RS232 - Cabled Multiport Serial Cards

PCI RS232 MULTIPOINT SERIAL CARDS	PORTS	CODE
UNIVERSAL PCI 4 PORT RS232	4 x 9 pin	UC-268
UNIVERSAL PCI 4 PORT RS232	4 x 25 pin	UC-265
UNIVERSAL PCI 8 PORT RS232	8 x 9 pin	UC-279
UNIVERSAL PCI 8 PORT RS232	8 x 25 pin	UC-275

Multiport cards provide a neat and robust way to add up to 8 serial ports to a single PCI slot. Several cards can be used in a single PC, meaning that up to 40 serial ports can be added to a PC with 5 free expansion slots. They are ideal for terminal servers and test beds as all ports are able to transmit data simultaneously at full speed. They also provide a cost effective way to add several modems to a server.

All the products on this page are based on Brainboxes high performance LYNX chip with large 32 or 64 byte FIFO buffers to ensure smooth and reliable data transfer.

True COM ports

Brainboxes' PCI cards create real COM ports within Windows. This means that they will work with all applications.

Features common across the range

- Universal PCI (3.3V and 5V)
- Maximum baud rate: 115,200
- FIFO buffer per port: 64byte (4 ports), 32byte (8 ports)
- CE/FCC Compliant
- Plug & Play - auto configuring of interrupt and address
- Fully moulded cables terminate in industry standard 9 or 25 pin 'D' connectors



UC-279 Universal PCI 8 Port RS232

Supported Operating Systems

- Windows Vista, Server 2008, Server 2003, and XP signed drivers (32bit & 64bit)
- Windows 2000, NT, Millennium, 98, 95
- OS/2, DOS*, Linux*

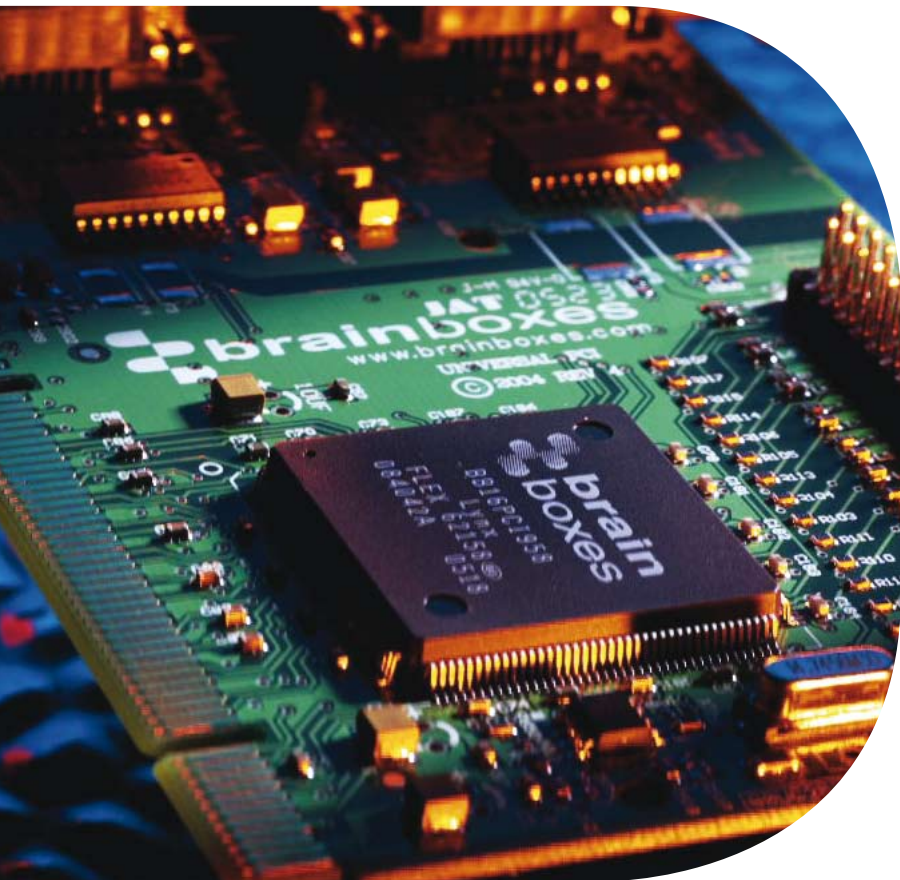
* Limited support



UC-268 Universal PCI 4 Port RS232

Typical Applications

- Test & measurement instrumentation
- Data collection
- GPS equipment
- Barcode readers
- Label printers
- Touch screens
- Motion sensors
- Controlling security cameras
- Access control equipment
- Gaming machines
- Weighing scales
- Credit card readers
- Display equipment
- Controlling robotic equipment
- Cheque readers
- Cash counters
- PIN pads
- Cash drawers
- Smart card readers
- Plotters



PCI & Low Profile PCI RS422/485 Serial Cards

RS422/485 cards are widely used in industry for communications over long distances (RS485 allows for up to 32 driver/receiver pairs on a party line data bus up to 4000 feet). All of our PCI RS422/485 cards have terminating resistors with fail-safe open/short circuit detection. In addition, they each have hardware autogating - automatically detecting the start and finish of data transmission, and guaranteeing rapid turnaround in half duplex operation, thus preventing data loss. This enables the use of lower cost, half duplex cabling solutions especially for large factory installations (if supported by the remote equipment).

The majority of the range are based on Brainboxes' high performance LYNX chip with massive 128byte FIFO buffers to ensure smooth and reliable data transfer.

RS485 Autogating

Autogating is implemented on all Brainboxes PCI RS485 cards to automatically detect the start and finish of data transmission. This guarantees a rapid "receive turnaround" in half duplex operations, therefore preventing data loss.

Features common across the range

- Maximum baud rate: 921,600 (Velocity), 15 or 18 Mbaud (Ultra)
- FIFO buffer per port: 128byte (1-2 port cards), 64byte (4 port cards)
- CE/FCC Compliant
- Plug & Play - auto configuring of interrupt and address
- 4 port fully moulded cables terminate in industry standard 9 pin 'D' connectors
- Universal PCI (3.3V and 5V). CC-525/530 5V only
- Configurable as full or half duplex
- Hardware autogating for guaranteed no data loss in cheaper half duplex cabling systems
- Zener diodes provide transient spike protection

Supported Operating Systems

- Windows Vista, Server 2008, Server 2003, and XP signed drivers (32bit & 64bit)
- Windows 2000, NT, Millennium, 98, 95
- OS/2, DOS*, Linux*

* Limited support



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



UC-346 Universal PCI
4 Port Velocity RS422/485

PCI & LOW PROFILE RS422/485 SERIAL CARDS	PORTS	CODE
UNIVERSAL PCI 1 PORT VELOCITY LOW PROFILE RS422/485	1 x 9 pin	UC-320
UNIVERSAL PCI 1 PORT VELOCITY RS422/485	1 x 9 pin	UC-324
UNIVERSAL PCI 2 PORT VELOCITY RS422/485	2 x 9 pin	UC-313
UNIVERSAL PCI 1 x RS232 + 1 x RS422/485 VELOCITY	2 x 9 pin	UC-357
UNIVERSAL PCI 4 PORT VELOCITY RS422/485	4 x 9 pin	UC-346
PCI DUAL RS422/485 15MB	2 x 9 pin	CC-530
PCI DUAL RS422/485 ULTRA 18MB	2 x 9 pin	CC-525

Typical Applications

- Controlling robotic equipment
- Factory automation & networking
- Score boards
- Studio broadcast equipment
- Remote displays
- Control, test, and measurement equipment
- Biometrics equipment
- Weighing scales
- Access control
- Warehouse management systems
- Lighting systems control
- Building automation systems
- Onboard ship monitoring



PCI Opto-Isolated RS422/485 Serial Cards Velocity

Optical isolation provides greater protection for both card and PC from electrical current surges. It also improves noise immunity by isolating the PC from card's transmit ground. The opto-isolated cards listed below have optical isolation of $\pm 1500V$ DC/1000V AC. On board terminating resistors provide full fail-safe open/short circuit protection. They are ideal for use in situations where 'floating grounds' are likely, for example where portable generators are in use, or where there is a high risk of power surges from lightning strikes or cable ruptures.

All the products on this page are based on Brainboxes high performance LYNX chip with massive FIFO buffers to ensure smooth and reliable data transfer.

Features common across the range

- Universal PCI (3.3V and 5V)
- Maximum baud rate: 921,600 with true 1Mbit line drivers
- FIFO buffer per port: 128byte (1-2 port cards), 64byte (4 port cards)
- CE/FCC Compliant
- Plug & Play - auto configuring of interrupt and address
- 4 port fully moulded cables terminate in industry standard 9 pin 'D' connectors
- Configurable as full or half duplex
- Hardware autogating for guaranteed no data loss in cheaper half duplex cabling systems
- Zener diodes provide transient spike protection
- Opto-isolation $\pm 1500V$ DC/1000V AC
- Terminating resistors for fail-safe open/short circuit protection



UC-310 Universal PCI
2 Port Opto RS422/485



UC-368 Universal PCI
4 Port Opto Velocity RS422/485

Supported Operating Systems

- Windows Vista, Server 2008, Server 2003, and XP signed drivers (32bit & 64bit)
 - Windows 2000, NT, Millennium, 98, 95
 - OS/2, DOS*, Linux*
- * Limited support

Typical Applications

- Controlling robotic equipment
- Factory automation & networking
- Score boards
- Studio broadcast equipment
- Remote displays
- Control, test, and measurement equipment
- Biometrics equipment
- Weighing scales
- Access control
- Warehouse management systems
- Lighting systems control
- Building automation systems
- Onboard ship monitoring

PCI OPTO-ISOLATED RS422/485 SERIAL CARDS	PORTS	CODE
UNIVERSAL PCI 2 PORT OPTO RS422/485	2 x 9 pin	UC-310
UNIVERSAL PCI 4 PORT OPTO VELOCITY RS422/485	4 x 9 pin	UC-368



Powered PCI RS232 Serial Cards Standard & Velocity

Powered serial cards are used primarily in retail point of sale systems to allow devices to be powered from the PC. They are ideal for connecting and powering peripherals such as barcode readers, printers, card readers, and display units.

Each card has selectable power options. Ground or 12V can be selected on pin 1 of each port and 12V or 5V can be selected on pin 9 of each port.

All the products on this page are based on Brainboxes high performance LYNX chip with massive 128byte FIFO buffers to ensure smooth and reliable data transfer.

True COM ports

Brainboxes' PCI and LPT card range creates real COM ports within Windows. This means that they will work with all applications.

Features common across the range

- Universal PCI (3.3V and 5V)
- Maximum baud rate: 115,200 (standard)
- FIFO buffer per port: 128byte
- CE/FCC Compliant
- Plug & Play - auto configuring of interrupt and address
- Each port has selectable ground, 5V and 12V

Supported Operating Systems

- Windows Vista, Server 2008, Server 2003, and XP signed drivers (32bit & 64bit)
- Windows 2000, NT, Millennium, 98, 95
- OS/2, DOS*, Linux*

* Limited support



UP-869 Universal PCI
2 Port RS232 POS 0.5 Amp

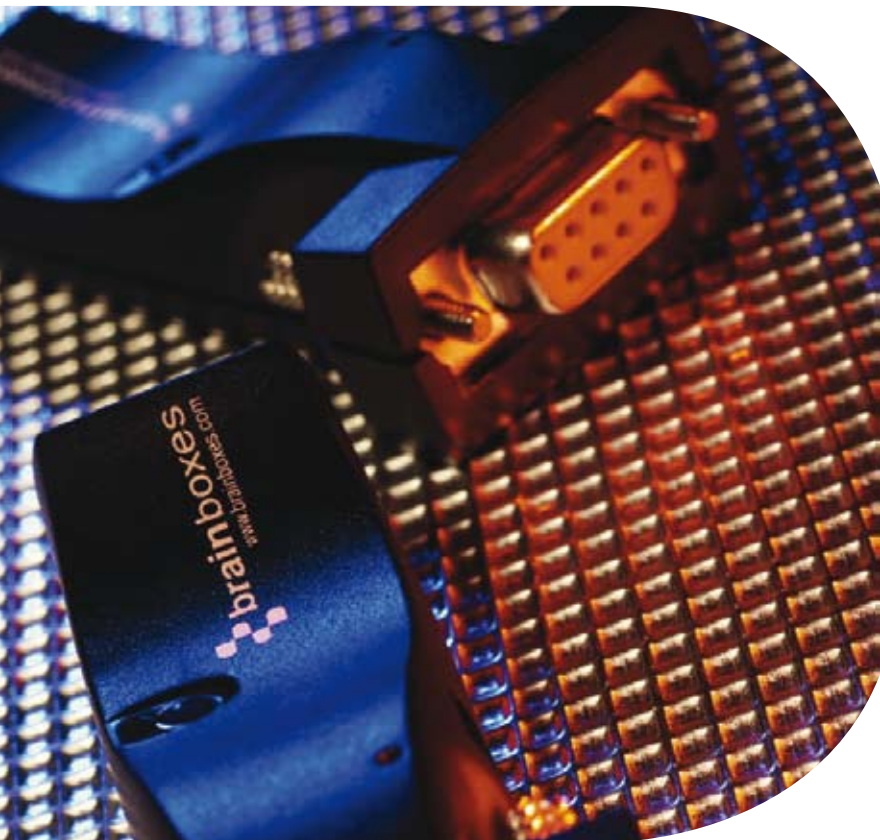


UP-880 Universal PCI
2 Port RS232 POS 1.3 Amp

PCI RS232 SERIAL CARDS	PORTS	CODE
UNIVERSAL PCI 2 PORT RS232 POS 0.5AMP	2 x 9 pin	UP-869
UNIVERSAL PCI 2 PORT RS232 POS 1.3AMP	2 x 9 pin	UP-880

Typical Applications

- Barcode readers
- Touch screens
- Display equipment
- Cheque readers
- Cash counters
- PIN pads
- Credit card swipes
- Cash drawers



Bluetooth Serial Converters

Brainboxes has RS232 Bluetooth converters to meet every need. They require no software and can be up and running within just 10 minutes. Simple and easy to use configuration utilities, for Windows or Linux, can be used to change factory set options. With 3-wire operation, integral antenna, and the option to configure as a pair for true cable replacement, these devices are an engineers dream. They can be used to establish a connection to any device with an RS232 serial port.

Features common across the range

- Plug directly onto RS232 port for instant connection
- Intuitive configuration utility supplied for Windows and Linux
- Retain settings when powered down
- Class 2 devices can be powered from pin 9

Supported Operating Systems

- None required



BL-819 Class 2 RS232 Bluetooth Converter DTE



BL-521 Class 1 RS232 Bluetooth Converter

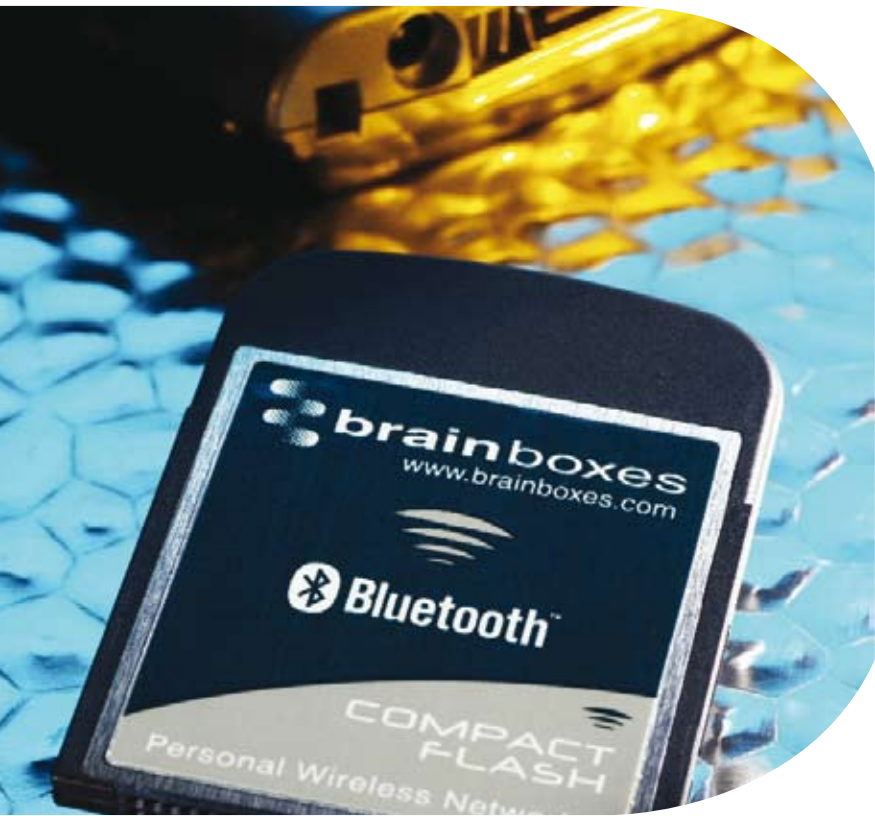


BL-830 Class 2 RS232 Bluetooth Converter DTE

BLUETOOTH SERIAL CONVERTERS	CLASS	CODE
CLASS 1 RS232 BLUETOOTH CONVERTER	100m (300ft)	BL-521
CLASS 1 RS232 BLUETOOTH CONVERTER MODULE	100m (300ft)	BL-730
CLASS 2 RS232 BLUETOOTH CONVERTER DTE (Male for device end)	10m (30ft)	BL-819
CLASS 2 RS232 BLUETOOTH CONVERTER DTE (Female for PC end)	10m (30ft)	BL-830

Typical Applications

- Test & measurement instrumentation
- Data collection
- GPS equipment
- Barcode readers
- Label printers
- Touch screens
- Motion sensors
- Controlling security cameras
- Access control equipment
- Gaming machines
- Weighing scales
- Credit card readers
- Display equipment
- Controlling robotic equipment
- Cheque readers
- Cash counters
- PIN pads
- Cash drawers
- Smart card readers
- Plotters



CompactFlash

The award winning Brainboxes Type I CompactFlash card allows a PDA with a Compact Flash or PC card slot to communicate with other Bluetooth devices. Brainboxes Bluetooth device supports many Bluetooth profiles, upgradable firmware and is fully qualified by the Bluetooth SIG. Being mobile no longer limits your options.

This class 1 Bluetooth device operates at 14dBm, making it one of the leading Bluetooth PC Cards in the market today. It can also be used in conjunction with the adapter jacket to fit any PCMCIA slot.

- Type I CompactFlash card with extended back
- Class 1 (100m / 300ft)
- Bluetooth 1.2 qualified
- Works as PCMCIA card when used with adapter

Supported Operating Systems

- Windows XP SP2
- Windows Mobile 5.0
- Pocket PC 2003, 2002, 2000
- Windows CE 4.2



BL-565 Class 1 CompactFlash Card



BL-554 Class 2 USB Bluetooth Adapter

Bluetooth USB & CompactFlash

BLUETOOTH USB & CF CARDS	CLASS	CODE
CLASS 1 COMPACTFLASH CARD	100m (300ft)	BL-565
CLASS 1 PCMCIA BLUETOOTH CARD (CF+ADAPTER)	100m (300ft)	BL-752
CLASS 2 USB BLUETOOTH ADAPTER	10m (30ft)	BL-554

USB

Brainboxes USB Bluetooth adapter allows a personal computer with a USB socket to communicate with other Bluetooth devices. It works out of the box with Microsoft's Windows XP Bluetooth software and was one of the first Bluetooth products in the world to achieve Microsoft Logo approval.

- Class 2 (10m / 30ft)
- Bluetooth 1.2 qualified

Supported Operating Systems

- Windows XP SP2