

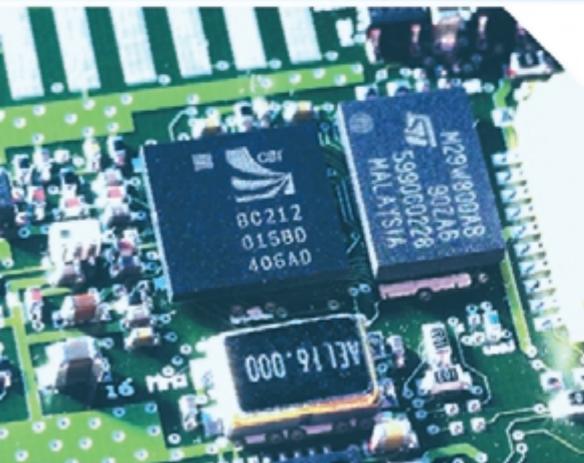
RoHS Compliant



BL-819 & BL-830

CLASS 2 RS232 BLUETOOTH ADAPTOR

'WIRELESS SOLUTIONS ENGINEERED TO EXCEED EXPECTATIONS'



Description

Compact, Award winning Brainboxes RS232 Adaptor allows any device with an RS232 port to communicate with another Bluetooth device without the need for any additional software.

Ideal for Bluetooth enabling 'dumb' RS232 devices such as dataloggers etc. with option to power from Pin 9. Based on fully tested Bluetooth silicon, allowing communications at the full Bluetooth data rates. Integral antenna.

Brainboxes expertise covers every niche of the RS232 adaptor market, with four products including an OEM module.

Features

- Class 2 Bluetooth device
- Suitable for ANY device with serial port
- Handshaking CTS/RTS & DTR/DSR
- Range, Office: 10m Field: 30m subject to local environment conditions
- Power On Pin 9
- Integral Antenna
- Upgradeable onboard flash memory for latest Bluetooth Features
- 4 ways to Configure
- Up to 1.0 Megabaud RS232
- 9 Pin Male and Female Options

[Click on each feature to find similar products](#)

Options



Class 2 RS232 Bluetooth adaptor:
9 Pin Male: BL-819



Class 2 RS232 Bluetooth adaptor:
9 Pin Female: BL-830



Class 1 devices see: BL-521 and BL-730

Software

Four configuration modes tailored to suit every environment:

- o Configuration Utility (for Windows)
- o Remote Configuration Over Bluetooth Link
- o Command line Configuration
- o Bulletin Board Configuration

Also included full product documentation and troubleshooting guide.

Find out about Brainboxes excellent Configuration Utility Software Features: [Click Here](#)



ORDER

Description

CLASS 2 BLUETOOTH RS232 ADAPTOR DTE (9 Pin Male)
CLASS 2 BLUETOOTH RS232 ADAPTOR DCE (9 Pin Female)

Code

BL-819
BL-830



CLASS 2 BLUETOOTH RS232 ADAPTOR

Product Code		BL-819 & BL-830																																																		
Bluetooth General																																																				
Bluetooth Qualification		1.1 Qualified																																																		
Bluetooth Radio																																																				
Class Of Device		Class 2																																																		
Radio Frequency		2.4GHz																																																		
Integral Antenna		Yes																																																		
Receiver Sensitivity		-83 dBm																																																		
Output Power		> 0 dBm < +4 dBm																																																		
Operating Distance (Typical) Metres*		Field: 30m Office: 10m																																																		
Bluetooth Settings																																																				
Max Transfer rate (Kb/s)		up to 723																																																		
Configurable Local Device Name and Device Class		Yes																																																		
Pairing Options		Enable/disable/link key expiry/2 proximity modes																																																		
Client and Server Mode		Yes																																																		
Configurable Discoverability, Security mode and PIN number		Yes																																																		
PICONET & SCATTERNET capable		Yes																																																		
PARK and SNIFF mode		Yes																																																		
Factory Reset		Yes																																																		
Serial Port Settings																																																				
Baud Rate (Kb/s)		244 - 921,600																																																		
Data Bits		8																																																		
Parity		Odd, Even, None																																																		
Stop bits		1 or 2																																																		
Flow Control		RTS/CTS , DTR/DSR																																																		
		<table border="0"> <tr> <td></td> <td>Female</td> <td>Male</td> <td>Male</td> <td>Female</td> </tr> <tr> <td></td> <td>Pin 1</td> <td>N/C</td> <td>N/C</td> <td></td> </tr> <tr> <td></td> <td>Pin 2</td> <td>TXD</td> <td>RXD</td> <td></td> </tr> <tr> <td></td> <td>Pin 3</td> <td>RXD</td> <td>TXD</td> <td></td> </tr> <tr> <td></td> <td>Pin 4</td> <td>DSR</td> <td>DTR</td> <td></td> </tr> <tr> <td></td> <td>Pin 5</td> <td>GND</td> <td>GND</td> <td></td> </tr> <tr> <td></td> <td>Pin 6</td> <td>DTR</td> <td>DSR</td> <td></td> </tr> <tr> <td></td> <td>Pin 7</td> <td>CTS</td> <td>RTS</td> <td></td> </tr> <tr> <td></td> <td>Pin 8</td> <td>RTS</td> <td>CTS</td> <td></td> </tr> <tr> <td></td> <td>Pin 9</td> <td>Power</td> <td>Power</td> <td></td> </tr> </table>		Female	Male	Male	Female		Pin 1	N/C	N/C			Pin 2	TXD	RXD			Pin 3	RXD	TXD			Pin 4	DSR	DTR			Pin 5	GND	GND			Pin 6	DTR	DSR			Pin 7	CTS	RTS			Pin 8	RTS	CTS			Pin 9	Power	Power	
	Female	Male	Male	Female																																																
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	Pin 7	CTS	RTS																																																	
	Pin 8	RTS	CTS																																																	
	Pin 9	Power	Power																																																	
Bluetooth Security																																																				
Encryption		'None', 'Point to Point' or 'Point to Point and Broadcast'																																																		
PIN Authentication		PIN: Select from list or enter custom (16 character limit)																																																		
Security Levels		Low, Medium & High (Security Mode 1,2 & 3)																																																		
General																																																				
Power Source		External Power Device: 110mA @ 5V Or Power On Pin 9: 5V - 13.6 V																																																		
LED's		Combined power and Bluetooth link LED																																																		
Power Consumption		Depends on usage, more info CLICK HERE																																																		
Weight		24g																																																		
Size WxDxH (mm)		34 x 75 x 18																																																		
RS232 connector		9 pin male (BL-819) 9 Pin female (BL-830)																																																		
Interface																																																				
OS Compatibility		This device is compatible with any product with a serial port																																																		
Configuration		Windows Utility software or Remote/terminal Config																																																		
Awards		Winner Microsoft Tech Ed 2005, Mobile Computing Europe: Bluetooth CompactFlash and Bluetooth Serial Connectivity Winner 2005 European Electronics Industry Awards: Manufacturer of the Year																																																		
Approvals & Accreditations		UL, CE, FCC, Bluetooth Approved																																																		
Box Contents		Bluetooth RS232 Adaptor Power Supply CD with Utility software, manual, troubleshooting guide and datasheet Quick Start 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																																																		



CLASS 2 BLUETOOTH RS232 ADAPTOR

Glossary: Product Features Explained

Bluetooth RS232 Adaptor Configuration Utility

Brainboxes Bluetooth RS232 Adaptors have 4 ways to be configured: Configuration Utility, Bulletin Board, Remote Config or Command Line. Shown here is our simple yet complete Configuration Utility, which allows full customisation of a Brainboxes Bluetooth RS232 Adaptor.

Usability that speaks for itself

Bluetooth Device Class

There are 3 classes of Bluetooth device defined to suit different needs:

Class 1 - Long Range

Maximum Output Power of 100mW (20dBm)

Class 2 - Medium Range

Maximum Output Power of 2.5mW (4dBm) most common

Class 3 - Short Range

Maximum Output Power of 1mW (0dBm) very rare

A value of distance cannot be explicitly stated for each device class; every user environment is slightly different, and affects the signal in different ways. The best way to compare devices operating range is by comparing Output Power. A device with a larger output power will be able to communicate with other devices over a further distance. Most Brainboxes devices are class 1 devices with a very powerful Power Output, Brainboxes Bluetooth Class 1 devices have one of the most powerful Bluetooth radios in the industry - 14dBm!



CLASS 2 BLUETOOTH RS232 ADAPTOR

Brainboxes' Service

"Brainboxes offers free lifetime support for ALL customers."



We aim to provide industry leading support for our customers. Our highly trained and helpful support engineers sit and work closely with the product designers, developers, and testers to ensure an in-depth knowledge of the products. Support can be found by emailing support@brainboxes.com or calling: +44 (0)151 220 2500 during UK office hours.

Support website: www.brainboxes.com/support/index.asp

"Brainboxes offers 3 year 'no quibble warranty' on all Bluetooth products."

If, for whatever reason, your Brainboxes Bluetooth device does become dysfunctional Brainboxes are happy to replace it thanks to our "3 year no quibble warranty". Peace of mind for your investment.

Brainboxes' Kaizen

"Brainboxes constantly strives to achieve higher standards for the benefit of customers."



'Kaizen' is a Japanese term meaning 'continuous improvement'. Kaizen has been implemented throughout Brainboxes, resulting in significant improvements to our products and our customer service, as illustrated by the development of our own custom ASIC "LYNX" and our new lifetime warranty. As part of this ongoing process, in 2004 we embarked on 'Lean' and '6 Sigma' programs which are successfully increasing productivity and efficiency in all areas of the company. **More Info:** [Click Here](#)

What Can I do with Bluetooth?

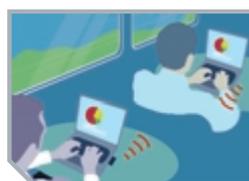
Bluetooth makes the sharing and exchange of information between mobile or static devices as simple as possible. Whether at home, on the move, or in the office it can be used for networking, sharing files, synchronizing information, email, Internet access, printing, and more. In industry it can be used to wirelessly control equipment and machinery - perfect for servicing inaccessible devices.



Connect **wirelessly** to a Bluetooth printer to easily **print** copies of your documents



Use Bluetooth in test or manufacturing to **control and monitor** equipment



Create instant **ad-hoc networks** to share files and information



Connect to the **Internet** from anywhere at **home** via a Bluetooth broadband modem



Email anywhere by connecting your laptop or Pocket PC to your Bluetooth phone