

 **Bluetooth**

RS232 SERIAL PORT ADAPTOR

Quick Start Guide



Introduction



Brainboxes RS232 Bluetooth Adaptors are fully embedded, stand-alone Bluetooth solutions, which will Bluetooth enable any device with an RS232 port. The adaptors do not require additional Bluetooth Software as they store all of the connection settings on the device. These settings are changed using the supplied configuration tools or simple terminal application.

Your Brainboxes device is designed as a cable replacement product. Its primary function is to offer 'point-to-point' Bluetooth capabilities to devices which otherwise do not have the potential for wireless communication. This capability is configured by a 'set and forget' interface, outlined briefly in this guide.

For the BL-819 only, you will need to use the enclosed RS232 gender adapter to physically connect the device to the RS232 port on your desktop / laptop for configuration purposes.

Power via serial port

Both the BL-819 (male connector) & BL-830 (female connector) can be powered by a suitable serial port (see manual on your CD for full details), thus removing the need for separate power supply.

FACTORY DEFAULT SETTINGS

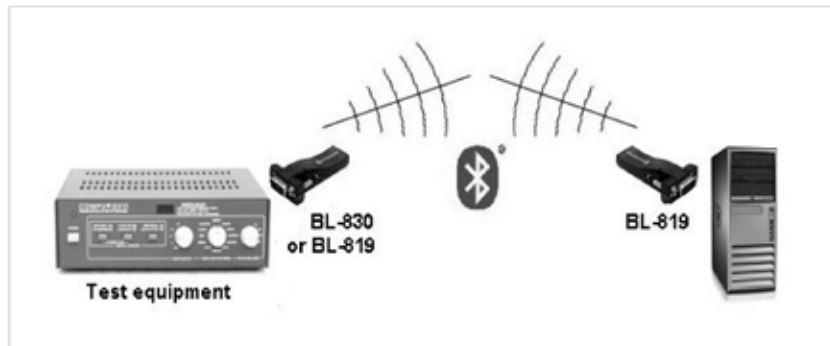
NAME:	RS232 BLUETOOTH CONVERTER
BAUD RATE:	115,200
PRIORITY:	NONE
STOP BITS:	1
NAME:	BRAINBOXES RS232 ADAPTER

Common Connection Setup Examples

Please read the manual on your CD for detailed instructions.

BL-819/830 connecting to BL-819/830/521/730

- One Device must be a Client and one device a Server
- The Client will need to have the MAC Address of the server entered into the Partner Address setting.
- If in Security Level 3 (by default) both devices will need to use the same PIN number in order to establish a successful connection (Default PIN is 1234)



BL-819 connecting to another Device

- If you are connecting to the BL-819 from another BT device then the BL-819 should be in client mode

BL-819 should be in Server Mode

- To make the BL-819 initiate the connection, it must be in Client Mode with the MAC Address of the device it is connecting to entered into the 'Partner Address' setting.
- If in Security Level 3 (by default) both devices will need to use the same PIN number in order to establish a successful connection Default PIN is 1234)



Configuring/Reconfiguring your device

There are 3 different ways to configure your RS-232 Bluetooth adapter. For detailed information, please see the Manual for RS232 Converter on your CD.

Note: Configuration of your device will not be possible if it currently has a Bluetooth connection active. Bluetooth connection can be removed by Short reset - press reset button for 5 seconds.

Note: Long reset - hold the reset button for longer than 15 seconds to restore Default Settings of your device.

1. Configuration Wizard*:

This application will take you through the initial configuration process. You can change device settings as you wish during the process. Please read the manual on your CD for detailed instructions.



2. Configuration Utility*

This application allows you to view and change all the settings. See instructions overleaf.

* The Configuration Wizard and Configuration Utility are installed from the supplied CD.



Configuring/Reconfiguring your device

3. HyperTerminal or Serial Terminal Application: You can also use a serial terminal application to configure the device. You need to select COM port and port settings from your serial terminal application, and then open/connect the port.

Note: The command line menu will appear when you press the "Enter" key after opening the port. To list all the supported commands, type "?" then press the "Enter" key. Please read the manual on the CD for detailed instructions.

*The Configuration Wizard and Configuration Utility are installed from the supplied CD.

4. Default Settings: The Factory default settings can be displayed in HyperTerminal or the Configuration utility software. To display in HyperTerminal, select option 3 from the main menu "Display/Restore Device Settings". The user will be then given the option of displaying current settings by entering "1" or restoring the default settings by entering "4".


```
BI-521 (115200) COM1 - HyperTerminal
File Edit View Call Transfer Help
[Icons]

=====
=====  MAIN MENU  =====
=====  Version 4.3.6 BL-830  =====
=====

Key [1] - Modify Device Port Settings
Key [2] - Modify Bluetooth Settings
Key [3] - Display/Restore Device Settings
Key [4] - Disable Interactive Menu
Key [5] - Prepare to Upgrade Device

=====

Connected 00:00:20  ANSIW  115200 8-N-1  SCROLL  CAPS  NUM  Capture  Print
Connection scheme: Command Mode
Connect using: Serial Port Profile
Low power mode: Park mode: Disabled, Sniff mode: Disabled

Press '1' to display current settings
Press '2' to display default settings
Press '3' to save current settings as default
Press '4' to restore default settings
Press Esc to go back to menu
_

Connected 0:04:08  Auto-detect  115200 8-N-1  SCROLL  CAPS  NUM  Capture  Print
```

Install Configuration Software

and setting up your device for the first time

1. To install the Configuration software, insert the supplied CD into your computer. This will automatically bring up the menu screen. Select "RS232 Bluetooth Cable Replacement".



2. Select your product i.e. "BL-819 DTE Converter"



3. Select "Install Config Utilities".
The software setup will start.

The screenshot shows a software installation window for Brainboxes BL-819/BL-830 Bluetooth Converters. At the top left is the Brainboxes logo with the website address www.brainboxes.com. At the top right, there is a note: "Technical documentation contained on this CD requires Adobe® Acrobat® Reader® software. Click here to install." Below this is a navigation bar with tabs for "RS232", "COMPACTFLASH", "USB", and "CONTACT". The main content area features two images of the Bluetooth converters on the left. To their right, the product name "Brainboxes BL-819/BL-830 Bluetooth Converters" is displayed. Below the product name are three main menu categories: "Configuration Utilities" (with a sub-option "Install Config Utilities"), "Documentation" (with sub-options "BL-819/BL-830 Data Sheet" and "Converter Manual"), and "Technical Support" (with a sub-option "Troubleshooting"). At the bottom left of the main area is a "BACK" button.

4. Click "Next" to
begin installation.

The screenshot shows a warning screen with the following text: "WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law." At the bottom of the screen are three buttons: "Cancel", "< Back", and "Next >".

Install Configuration Software

and setting up your device for the first time

5. Click "Next" again.
6. Select a folder where you want to install the "Configuration Software" to.
Click "Next".



7. Click "Yes, launch configuration wizard after installation". This will allow the configuration wizard to run after installation is finished. Click "Next".
8. "Configuration Wizard" will appear to help you configure your device for the first time.



9. Make sure you have plugged your device into the serial port and the power is ON. The configuration wizard will guide you through setting up the most common RS232 and Bluetooth options of the device.

IMPORTANT: Please don't unplug your device during configuration of your device.

10. To connect to your device, you will need to choose the correct serial settings which are on your RS232 Bluetooth adapter. If you are doing this for the first time, or unsure of the settings, then choose the "Auto" option from the baud rate selection.

Note: Configuration of your device will not be possible if it currently has a Bluetooth connection.

Click "Next".



Install Configuration Software

and setting up your device for the first time

11. Once all the device settings have been selected, the configuration wizard is complete. The wizard will now take you through various steps to input the basic settings of your device.



BRAINBOXES BLUETOOTH RANGE



BL-752 PCMCIA/CF
BLUETOOTH COMBO CARD



BL-830 CLASS 2 RS232
BLUETOOTH ADAPTOR DCE
(Female 9pin D for PC End)



BL-565 COMPACTFLASH
BLUETOOTH CARD



BL-521 CLASS 1 RS232
BLUETOOTH ADAPTOR



BL-554 USB BLUETOOTH
ADAPTOR



BL-730 CLASS 1 RS232
BLUETOOTH CONVERTER
MODULE



BL-819 CLASS 2 RS232
BLUETOOTH ADAPTOR DTE
(Male 9pin D for Device End)

Visit www.brainboxes.com to see full range of PCI Express, Universal Serial cards, PCMCIA and Bluetooth Products.

Brainboxes Profile



Established in 1984, Brainboxes is one of the leading PC communication card developers and manufacturers in the World. Headquartered in Liverpool, UK, it has a team of highly qualified software and hardware designers, matched by a world-class volume manufacturing facility.

The company develops and owns all of its own core technologies, including USB, CompactFlash, PCMCIA, RS232 and PCI products. It is at the forefront of developments in serial card and wireless technology. Current customers include Lenovo, Fujitsu, Reuters,

Further information is available from Brainboxes website at www.brainboxes.com

BLUETOOTH RANGE

CODE

PCMCIA/CF BLUETOOTH COMBO CARD	BL-752
COMPACTFLASH BLUETOOTH CARD	BL-565
USB BLUETOOTH ADAPTOR	BL-554
CLASS 2 RS232 BLUETOOTH ADAPTOR DTE (Male 9pin D for Device End)	BL-819
CLASS 2 RS232 BLUETOOTH ADAPTOR DCE (Female 9pin D for PC End)	BL-830
CLASS 1 RS232 BLUETOOTH ADAPTOR	BL-521
CLASS 1 RS232 BLUETOOTH CONVERTER MODULE	BL-730

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