

ZBA, Inc. ZBA Bluetooth Modules Firmware Upgrade Procedure.







ZBA, Inc 94 Old Camplain Road, Hillsborough, NJ 08844 www.zbausa.com



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Here are the directions for the firmware upgrade for the BT44-XXX

What you will need to start

- a) UpgradedFirmware DFU file = <u>xxxxx.dfu</u>
- b) Bluesuite 2.0 downloadable from

http://www.zbaus.com/downloads.php?id=69

- c) Connection to a PC COM port
 - a. For the BT44-191C please check the PC adapter board

http://www.zbaus.com/downloads.php?id=71

- d) Windows PC with a COM port
 - a. Virtual COM port via a USB adapter is OK

Firmware Upgrade procedure

- 1. Install the CSR Blue Suite software.
 - a. Included on this .zip is a firmware upgrade tool any Bluetooth module that uses a CSR based product can use the same upgrade tool
- 2. Connect the module to the DB9 with a level shifter
- 3. Save The "UPGRADE" firmware to a directory where you can easily find the file
- 3a. Plug in the DB9 to a PC s comm. Port and open hyperterminal at the appropriate comm. Settings
- 4. After you power the unit hit <ESC> to get into the programming mode
- 5. The type the following
- 6. AT+DFU ENTER
- 7. The screen should begin putting out garbage characters
- 8. CLOSE Hyperterminal **DO NOT POWER OFF THE MODULE!!!!!!**
- 9. Run the DFU WIZARD firmware upgrade tool
- 10. When you run it you should see the first screen as





12. Hit Next





14. Click the COMPORT (RS232) then hit next



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BlueCore Devi	ce Firmware Upgrade Wizard 🛛 🛛 🔀	
	COM Port Selection Please select the COM port to which the BlueCore module is attached. Port Automatically detect communications settings. (Recommended.)	

16. Make sure you have the correct COM. Port selected hit next



 Please select whether you wish to download a new version firmware or restore a previous version. Download a new version of the firmware, savi copy of the current version first. Any previous version will be replaced. (Recommended.) Download a new version of the firmware, with saving a copy of the current version. Bestore the previous version of the firmware. option if a problem has been encountered after performing a previous upgrade. 	wnload a new version of
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	ion of the firmware. Use th en encountered after grade.
Backup File: C:\Documents and Set\saved.dfu	.saved.dfu <u>C</u> hange
No previously saved firmware could be found. Some upgrade options will remain disabled until a success upload has been performed.	; found. bled until a successful

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18. Click the top radio button click next





20. Select the appropriate file that is the latest firmware that you wish to upgrade to.



3lueCore Device Firmware Upgrade Wizard 🛛 🛛 🔀			
	Ready to Upgrade		
	The wizard has now collected all of the information that it requires to perform the upgrade. Please check the options listed below, and then click Next to start the upgrade, or Back to make changes.		
	COM port: COM39 (auto-detect settings)		
Y S	Upload: Existing firmware will be saved Download: C:\Documents and Settings\Victor\Mv Document		
A	<		
	< <u>B</u> ack <u>Next></u> Cancel Help		

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21. At this point you are ready for upgrade. Click next

BlueCore Devic	e Firmware Upgrade Wizard 👘 📔	X
	Upgrade in Progress Please wait while the upgrade is completed Upgrade procedure Establishing communications and reconfiguring device Attempting to establish initial connection. Trying BCSP with passive link establishment at 460800 baud.	
	< <u>B</u> ack <u>N</u> ext> Cancel Help	





22. IMPORTANT!!!!!!! Do not interrupt the upgrade procedure. Let it run to completion. I usually do not touch the computer while this is upgrading.

23. After it is finished power the module on and off and then you are ready to use the upgraded software.