

# BL620-US FIRMWARE UPGRADE

## Application Note

v1.0

### INTRODUCTION

The goal of this document is to explain how to upgrade the firmware in the BL620-US dongle.

### REQUIREMENTS

The following equipment and utilities are required:

- BL620-US Dongle
- Windows PC (Windows 7 or newer)
- UwTerminal (Windows) – free download from [www.lairdtech.com](http://www.lairdtech.com)

The BL620-US dongle has a Segger J-Link chip on board; when you connect the dongle to your computer, it searches for the relevant driver which can be obtained from <http://www.segger.com/jlink-software.html>. You need the serial number printed on the underside of your dongle next to the text SEGGER # to be able to download the driver from the Segger website.

### INSTALLATION

Please refer to the guide “CONN-QSG-BL620-US”

### FIRMWARE UPGRADE

The BL620-US is already preloaded with firmware. When new firmware becomes available, customers can upgrade the firmware over the USB interface. The procedure is quite straightforward. Be aware that all *smartBasic* applications and settings are cleared after the upgrade.

The firmware package can be downloaded from <https://laird-ews-support.desk.com>, and login credential will be required. Customers should visit the website to submit the request.

1. Connect the dongle to your PC.
2. Send at i 8 to ensure the correct com port is opened.



```
UwTerminal v6.60
Terminal | BASIC | Config | About |
CTS DSR DCD RI RTS DTR BREAK LocalEcho LineMode
at
00
at i 3
10 3 12.4.10.0
00
at i 8
10 8 Laird Technologies, (c)2014
00
```

3. The upgrade package is provided as a zip file so decompress it into a new folder of your choice. The form of the file name is: BL620\_R2\_Firmware\_&\_Samples\_smartBASIC\_Apps\_vW\_X\_Y\_Z-rN where W,X,Y,Z is the version number of the firmware and -rN is an optional suffix that is present if the zip file has new content apart from the firmware image (such as corrections in the user guide or other documentation).

Note: Do not decompress into an existing folder, as there is potential for confusion with regards to firmware upgrade files. We recommend you decompress the zip file into a folder with the same name as the zip filename.

4. In the decompressed folder, launch `_DownloadFirmware_vA_B_C_D.bat` (either double-click it or launch it from a command prompt console window). Upgrade process will start immediately.
5. If the J-Link firmware is outdated, the following dialog box displays (Figure 4):



Figure 4: J-Link firmware update dialog

- Click Yes to update the J-Link firmware.

The BL620-US firmware upgrade process resumes automatically and displays a command prompt box.

- When the upgrade is finished, the console window displays the following:



8. Press any key to proceed.
9. Send at i 3 to confirm the firmware has been upgraded.



## **FURTHER INFORMATION**

Further information relating to firmware and the use of UWTerminal is available from the Laird website at <http://www.lairdtech.com/Products/Embedded-Wireless-Solutions/Bluetooth-Radio-Modules/BL600-Series>