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Re: Firmware images

Lope Ben Porquis [Lope.Porquis@iit.it]

Sent: 04 June 2015 16:09

To: Petar Yordanov

Cc: Graham Wilson; Gabriel Baud-Bovy [Gabriel.Baud-Bovy@iit.it]

Hi Peter,

The blueupdate.exe is part of the bluegiga sdk installer.
I have a copy of the installer here:
<https://svn.rbc.s.iit.it/abbi/iit/abbi2fw/exp/abbi2ben/tools/Bluegiga...>
If I remember the installation consist of two parts. First installing the sdk then installing the update tool.
Remember to select full installation in the wizard.

If you had updated the firmware from 1.1 to 2.0, i think you also need to reset the eeprom configuration.
To do this you need to run ABBI2CFG.
Connect to the device, and in the "Serial Number" field enter "eepr
Then press Update.
It will reset to the default settings hardcoded in the v2.0 firmware.

Disconnect the device, and reconnect again.
You should see the default device settings then.

If you make any changes you can save it by pressing the serial number update button.

This should work.
Otherwise please send me a detailed steps that you had done.

thanks

ben

On 04/06/2015 16:32, Petar Yordanov wrote:

> Hello Ben and Gabriel,
>
> My name is Peter and I am a Glasgow University Computing Science st 4th year). I will be working with the ABBI bracelet this summer on a : aiming to design and develop an improved communication architecture f centered around an Android application for remote control.
>
> The email that you have sent is quite useful. I read most of the .p and was able to update the bracelet's firmware the other day. However Android ABBI2 application registered on the Play Store (<https://play.google.com/store/apps/details?id=com.lth.certec.abbi2>) /which works great with the 1 / to test regular synthesiser sounds does not work and the device is : sounds /the need to upload .wav files is expected, but I assume the c intermittent sounds that the device can be configured to emit via its should work without any issues/. Graham and I assumed this might have BLE chip firmware, which also needs to be updated as highlighted by y http://wiki.abbiproject.eu/doku.php?id=private:fw:ble_update .
>
> However, following the instructions there, a "blueupdate.exe" file is available from BlueGiga's website according to the instructions. I official website the other day and am still waiting for my account to order to download the firmware and be able to proceed with the update send the "blueupdate.exe"?

>
> Regards,
> Peter Yordanov.
>
> From: Lope Ben Porquis [Lope.Porquis@iit.it]
> Sent: 04 June 2015 14:55
> To: Graham Wilson
> Cc: Petar Yordanov; Gabriel Baud-Bovy
> Subject: Firmware images
>
> Hi Graham,
>
> I prepared 2 ABBIs (#26 and #27) for your team. Gabriel will be bri
> them next week.
> These ABBIs have wav files stored in memory. For now only the regul
> ABBi2 firmware can playback those files.
>
>
> The wav files are fixed in memory, but you can replace them if want
> Just keep in mind that new files should have the same length and fo
> with the old ones.
> Changing the sounds needs a separate firmware and a dedicated softw
> These are found in svn.
>
> This is the link for the firmware:
> <https://svn.rbc.s.iit.it/abbi/iit/abbi2fw/trunk/stmfw/imgLoader>
> and here is the link for the software:
> <https://svn.rbc.s.iit.it/abbi/iit/abbi2cfg/trunk/WavLoader>
> This software version allows you to load wave files individually.
>
> If you want to load a single image at once (which contains 24
> preselected wave files), about 5MB in size.
> there is a separate program for that and it can be found here:
> <https://svn.rbc.s.iit.it/abbi/iit/abbi2cfg/trunk/ImageLoader>
>
> The instructions for loading the wav file is here:
> http://wiki.abbiproject.eu/doku.php?id=private:fw:fl_image
>
> Please note that neither programs are optimized, and they are crude
> Loading an image file also takes about 1 - 3 hours depending on you
> computer, and sometimes it does not guarantee success.
> Both windows programs were compiled using VS2010, the sources and
> project files are available in those links above.
>
>
>
> We also have another firmware dedicated for motion data streaming.
> You can download it here:
> <https://svn.rbc.s.iit.it/abbi/iit/abbi2fw/trunk/stmfw/imuStream/ABBI>
>
> I had one ABBi2 (#26) with data streaming firmware installed.
> You can test it using this program:
> <https://svn.rbc.s.iit.it/abbi/iit/abbi2win/abbi2winimu/Debug/abbi2im>
> Note that a BLE112 usb dongle is needed for it to work.
>
>
>
> The regular ABBi2 firmware is available here:
> <https://svn.rbc.s.iit.it/abbi/iit/abbi2fw/trunk/stmfw/stdAbbi2/ABBI2>
> This is loaded in ABBi2 (#27) and it can be used to play wav files
> inside the device.
>
> ABBi2 with a regular firmware can be configured using ABBi2CFG prog
> It is a C# code whose sources and binaries can be found
> here: <https://svn.rbc.s.iit.it/abbi/iit/abbi2cfg/trunk/PCApp>
> A BLE112 dongle is also needed to make it work.
>
>
>
> That ABBi2 (#2) you have has an old firmware (v1.1), and it does no
> have wav files installed.
> Also it has an old BLE firmware installed.

> To update that BLE firmware, you need the latest image here:
> <https://svn.rbcsl.iit.it/abbi/iit/abbi2fw/trunk/blefw/BLE113.hex>
> and instructions here:
> http://wiki.abbioproject.eu/doku.php?id=private:fw:ble_update
> To update the microcontroller (stm) firmware, please refer to this
> guide: <http://wiki.abbioproject.eu/doku.php?id=private:fw:update>
> I think that device is a good thing to start.
> By the way, both ABBIs (#26 and #27) has the latest BLE firmware
> installed, and it will work for imu data streaming fw or the regula
>
>
> If you find it bit difficult to get started. We can open up a skype
> meeting next week, to get issues done faster.
> You can also send me an email if you have questions already in mind
>
> Thank you.
>
> Best regards,
> ben
>
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