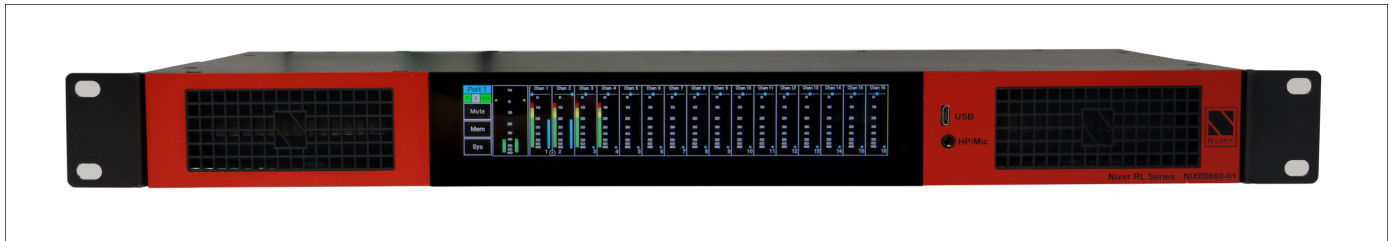


RL256

Updating Firmware

V1.04

(rev a 23/11/21)



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Checking the Current versions

Check the current version(s) of the firmware on each of the Ports on your product

| | | | | | | | |
|----------|---|------|------|---------------------|--------|--------|--------|
| Network | ZMAN Ravenna card | | | Jump to Boot-Loader | | | |
| | S/W version : 1.2.0b46038 | | | | | | |
| Firmware | State Monitor version : May 28 2021 10:33:53 - Version 1.00 | | | | | | |
| Power | | | | | | | |
| System | CPU | FPGA | DSP | Port 1 | Port 2 | Port 3 | Port 4 |
| | Jun 22 2021 16:08:05 - Version 1.01 | 1.00 | ---- | | | | X |

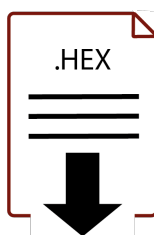
Compare this to the latest firmware in the Downloads section of the Nixer website

<https://www.nixerproaudio.com/Downloads/>

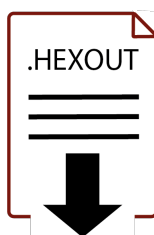
Downloading the latest firmware(s)

If there are updates available follow the steps below

- If you do not have the Nixer BLM.exe program download and install the latest version of Nixer BLM.exe (V1.5) from https://www.nixerproaudio.com/resources/Nixer-BLM_V1.5.exe
- Next download the CPU firmware (.hex file)



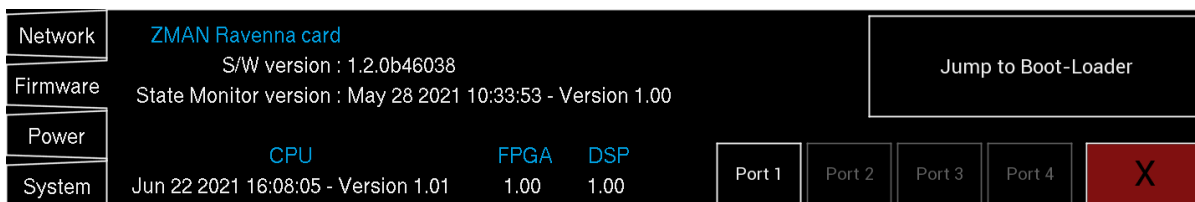
- If it has also been updated download the (.hexout file)



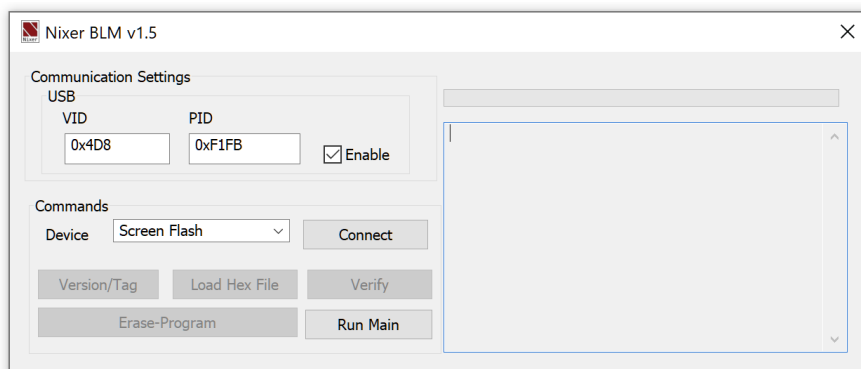
Updating the CPU firmware

- Next attach the RL256 to the PC via a USB cable and turn it on
- You will have five new USB devices attached to your PC
- Navigate to the Update Menu in the System menus select Port 1 and press the button to enter Boot Loader Mode. You will see a countdown of dots before the screen goes blank – **ALWAYS update Port 1 first**

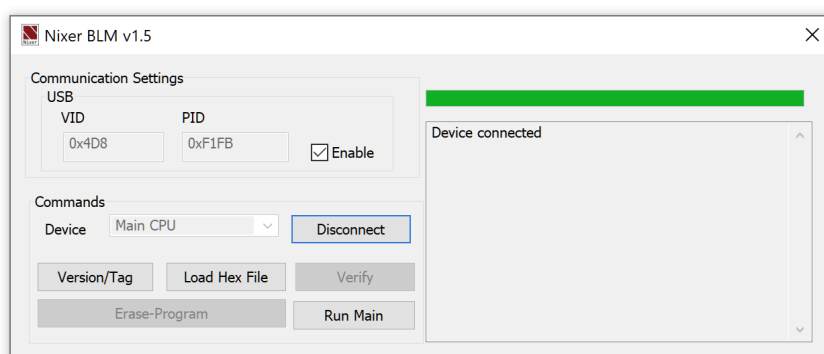
- For Ports 2 through to 4 the screen will not go blank when the respective Port is put into Bootloader mode, instead once the countdown dots finish the screen will jump back to Port 1



- A new USB device called USB HID Bootloader #xx will connect to your PC
- Your RL256 is now ready to update Port 1
- Run the Nixer BLM program on your PC

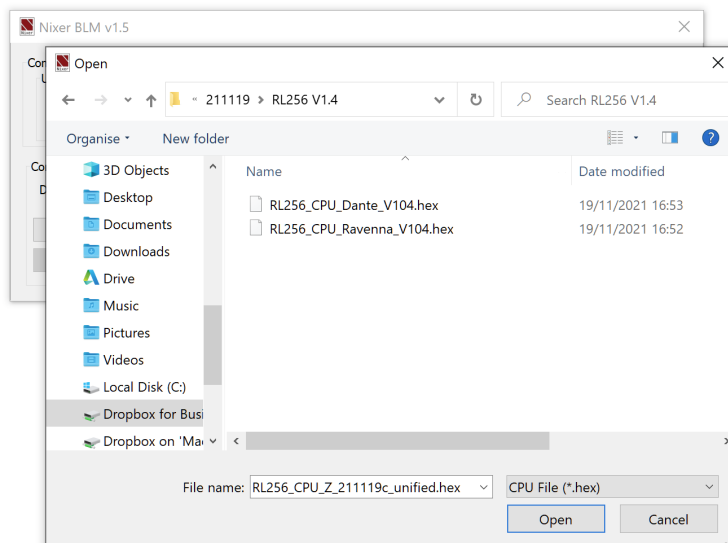


- Once the program is running change “Screen Flash” to “Main CPU” via the drop-down menu and click connect

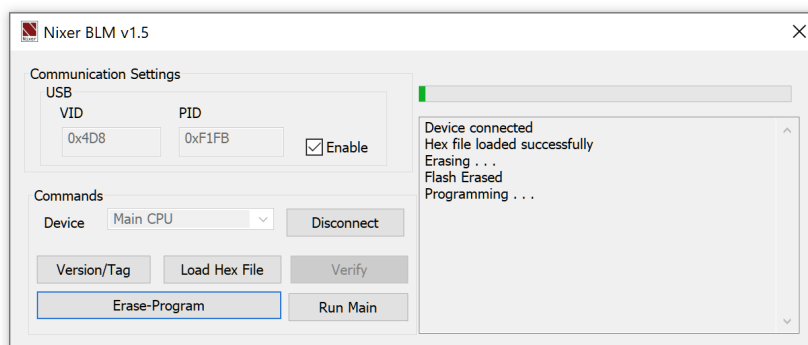


- You will now see that it says device connected in the status window
- Click on Load Hex File. Next navigate to and load in the .hex file that you downloaded from ww.nixerproaudio.com
- Note for Dante Ports load the firmware that has Dante in the name for example RL256_CPU_Dante_V104.hex
- Note for Ravenna Ports load the firmware that has Ravenna in the name for example RL256_CPU_Ravenna_V104.hex

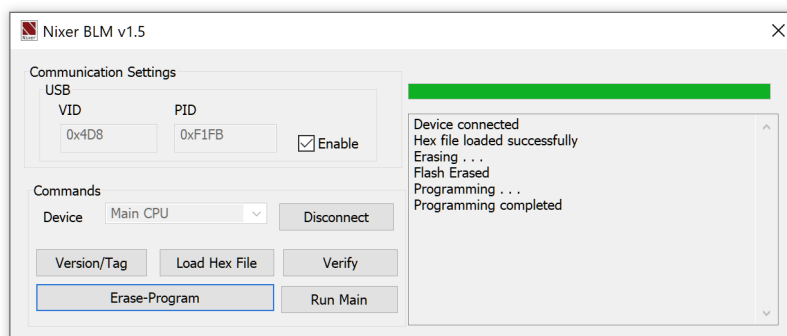
- Loading the incorrect version into a Port will cause abnormal behaviour of the product



- Click the Erase-Program Button and your device will be reprogrammed. You will see the progress in the status window and by the status bar which will gradually fill as the device is programme



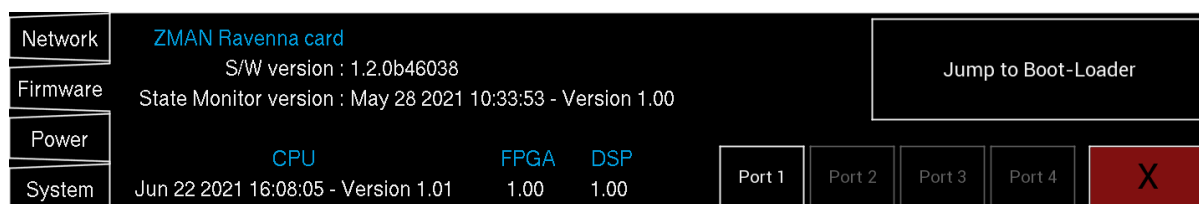
- When the device has been programmed the status window will say "Programming completed. Click Run Main and your unit will reboot with its updated software



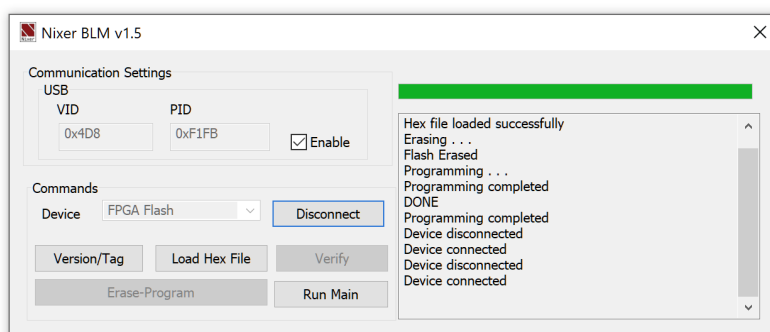
- This procedure will now need to be repeated for Ports 2 through to 4 if fitted. The order of updating is not important for these Ports. First select the Port required then press Jump to Boot-Loader as noted earlier at the end of the countdown dots the screen will jump back to Port 1. The Nixer BLM program can now be used to update the firmware in the Port that has been put into Boot-Loader mode by following the instructions above

Updating the FPGA firmware

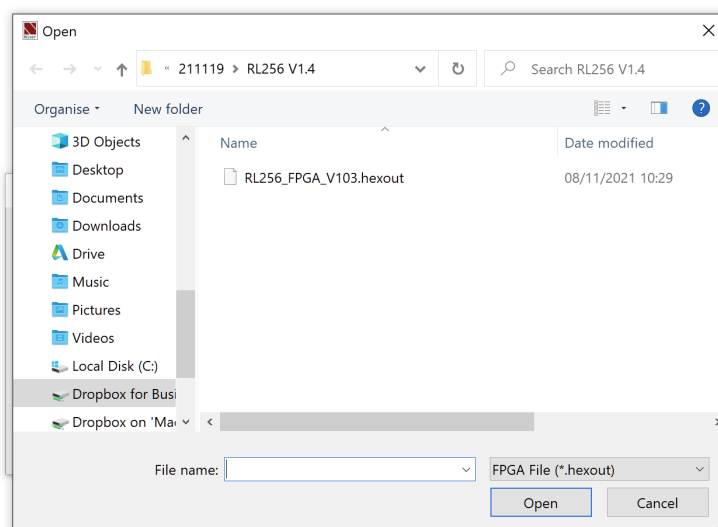
- To update the FPGA firmware, start the Nixer BLM program



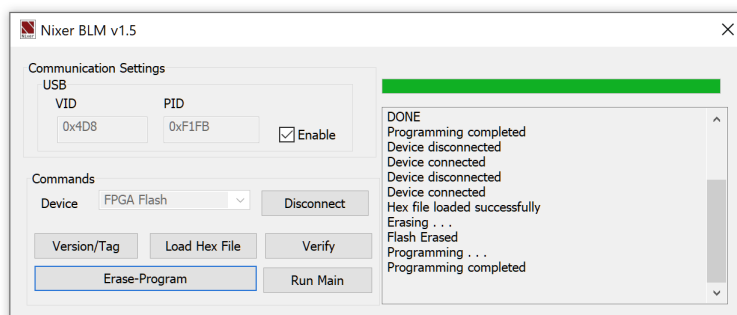
- Go to the firmware page and select Port 1 and Jump to Boot-Loader
- Select FPGA Flash from the pull-down menu and click connect



- Once connected click Load Hex File and navigate to and open the .hexout file you have downloaded



- Click Erase-Program



- Once the status window says Programming complete click Run Main and your RL256 will reboot
- When the Splash Window starts you will see confirmation of the Main CPU firmware followed by the FPGA version
- You will now need to repeat this procedure for Ports 2 through to Port 4 (where fitted)

Support

Additional information about Nixer products, updates, manuals etc can be found at

www.nixerproaudio.com