

DisplayPort Expansion Card Power Saving Firmware Update

This guide allows owners of 1st Generation DisplayPort Expansion Cards to update to the 2nd Generation Firmware.

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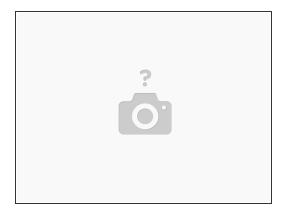
INTRODUCTION

This guide allows owners of 1st Generation DisplayPort Expansion Cards to update to the 2nd Generation Firmware.

After over a year of prototyping and experiments, we've been able to come up with a way to reduce system power consumption when a DisplayPort Expansion Card is present, by making the card pretend that it is not a display output when there is no monitor connected.

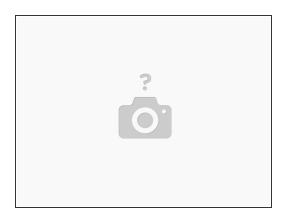
The tools provided by our vendor for this update process are Windows only.

Step 1 — Download Executables



- First you will need to download the Windows Executables from here and unzip them.
- There should be two files Framework_ReadVersion.exe and Framework_DP_Card_3.0.17.101.exe

Step 2 — Plug in your DisplayPort Expansion Card

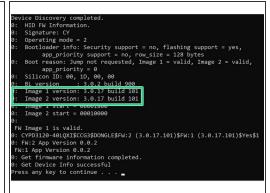


In order to run the updater the Expansion Card must be installed in your Framework Laptop

Step 3 — Check the current Firmware







- Run Framework_ReadVersion.exe to check that is not already on the 101 firmware.
- More Info and then Run Anyway.
- Once this runs you can check the Image 1 Version and Image 2 Version. In this image the build version is 101.

Step 4 — Run the Update executable







- Run Framework_DP_Card_3.0.17.101.exe
- Mhen trying to run the executable you will likely be prompted by Windows Defender. Simply click **More Info** and then **Run Anyway**.
- The Flash process will be started automatically.
- Hit any key after it tells you to.

Step 5 — Check Firmware version after Update

```
@ C:\Users\nrp\AppData\Loca\n\ \times + \rightarrow

0: Image 2 start = 00010000

0: Entered flashing mode successfully.

0: 1 HID devices found.

0: 0 USB-Serial Bridge devices found.

0: Communication interface initialized.

0: ?Control Interface (0)$Port(0)-UFP:1$

0:

Device Discovery completed.

0: HID FW Information.

0: Signature: CY

0: Bootloader info: Security support = no, flashing support = yes, app_priority support = no, row_size = 128 bytes

0: Boot reason: Jump not requested, Image 1 = valid, Image 2 = valid, app_priority = 0

0: Silicon ID: 00, 1D, 00, 00

0: Image 1 version: 3.0.17 build 101

1: Image 2 version: 3.0.17 build 101

0: Image 2 start = 00010000

0: Image 1 is valid.

0: CYPD3120-40LQXI$CCG3$DONGLE$FW:2 (3.0.17.101)$FW:1 (3.0.17.101)$Yes$1

0: FW:2 App Version 0.0.2

FW:1 App Version 0.0.2

FW:1 App Version 0.0.2

Get firmware information completed.

0: Get Device Info successful

Press any key to continue . . .
```

 Run Framework_ReadVersion.exe again to confirm that both flash regions state 101.