

# Nvidia Quadro Sync Firmware Update Tool

End user tool for updating Quadro Sync firmware in the field. The update tool is self-contained - i.e. it is packaged with the new firmware and the update executable.

## Step-by-Step Guide (for Windows):

1. Disable framelock from running in NVIDIA control panel.
2. In Windows, open cmd.exe shell with Admin properties.
3. cd to where the update tool is downloaded.
4. NVQuadroSyncUpdate\_XXXX.exe -u (this will update firmware to the version XXXX that is embedded in the tool).
5. NVQuadroSyncUpdate\_XXXX.exe -o (this will over write the existing firmware - i.e. if you already have version xxx installed or you are downgrading).
6. After the command has completed the update it will prompt you to reboot - select "No".
7. Shutdown the machine - i.e. do a complete power cycle. This will insure that the Quadro Sync is power cycled.
8. Restart the machine.
9. In the NVIDIA control panel check the firmware version for the Quadro Sync card.
  1. 0x52 - version 2 (default)
  2. 0x53 - version 3
  3. 0x54 - version 4
  4. 0x55 - version 5
  5. 0x56 - version 6
  6. 0x57 - version 7 (final)

## Step-by-Step Guide (for Linux):

1. Disable framelock from running in NVIDIA control panel.
2. In Linux, open terminal window with root privileges.
3. cd to where the update tool is downloaded.
4. NVQuadroSyncUpdate -u (this will update firmware to the version xxx that is embedded in the tool).
5. NVQuadroSyncUpdate -o (this will over write the existing firmware - i.e. if you already have version xxx installed or you are downgrading).
6. After the command has completed the update it will prompt you to reboot.
7. Shutdown the machine - i.e. do a complete power cycle. This will insure that the Quadro Sync is power cycled.
8. Restart the machine.
9. In the NVIDIA control panel check the firmware version for the Quadro Sync card.
  1. 0x52 - version 2 (default)
  2. 0x53 - version 3
  3. 0x54 - version 4
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5. 0x56 - version 6
6. 0x57 - version 7 (final)

## Nvidia Quadro Sync Version History

Version	Release Date	Description
0x52	7/27/12	Original official shipping version of firmware.
0x53	11/1/12	Fixes Skew and Sync delay issue. Resolved the issue reported by bug 1058215 which the card does not sync when the Skew (delay) is introduced. This is due to the gpuSync being generated from the original mastersync. It should be from the delayed version. The delayed flSync is routed into the gpuSync module so that gpuSync is generated accordingly.
0x54	3/15/13	Fixes issues with syncing to External Sync (Tri-level Sync). Added the logic to allow HS frame rate to lock to either falling, rising, or both edges. For interlace signal, the rising edge is jittering while the falling edge is not. So this feature is needed to handle interlace mode.
0x55	7/16/14	Detect gpuSwapRdy glitch pulse at the beginning when it rises due to gpuSwapRdyOut falling too slow. Made modification to drive gpuSwapRdy low whenever gpuSwapRdyOut is high.
0x56	7/29/15	Firmware fix for MOSAIC + Sync. Keep swapRdyEn output asserted for master GPU when iAmMaster value is true to provide pullup to RJ45 swapRdy signals, by removing the dependency on gpuSwapRdyEn register value.
0x57	9/11/15	Collect all fixes, clean up and production ready.