Public



AMD Radeon Firmware Updater Linux User Guide

Publication Number: 68877 Revision: 1.00
Date: November 2026

AMD

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AMD

Revision History

Date	Revision	Description
November 2026	1.00	Initial Public Release

Chapter 1: Introduction

This document provides step-by-step instructions for updating AMD Radeon™ Firmware using the AMD Radeon Firmware Updater on AMD Discrete GPU(s).

You can use the AMD Radeon Firmware Updater to update AMD Discrete Graphics card firmware to the most recent version.

AMD Radeon Firmware Updater Key Features:

- Displays discrete AMD GPU(s) configured in the system.
- Displays current firmware version and the latest available version.
- Select the AMD Discrete GPU(s) to update to the latest version of firmware.
- The command line tool which supports Ubuntu, Fedora, CentOS and Red Hat.

⚠ **CAUTION:** Using the AMD Radeon™ Firmware Updater in a Virtual Machine or Guest OS can result in an undefined behavior and unsupported configuration.

Chapter 2: Instructions

AMD Radeon Firmware Updater for Linux requires a system restart to apply the firmware updates. Be sure to save work before running AMD Radeon Firmware Updater.

2.1 Updating the Firmware

1. Run the tool with Sudo access.
2. For Ubuntu version 24.04 and RHEL version 8 or later, a GRUB config setting of `iomem=relaxed` is required. Instructions to add `iomem=relaxed`:
3. Use a text editor such as nano to perform this command:

   ```
   sudo nano /etc/default/grub
   ```

4. Modify the `GRUB_CMDLINE_LINUX_DEFAULT` line:

   Find the line `GRUB_CMDLINE_LINUX_DEFAULT="quiet splash"iomem=relaxed` and modify it to include:

   ```
   GRUB_CMDLINE_LINUX_DEFAULT="iomem=relaxed quiet splash"
   ```

5. Save the file and exit the editor.
6. Update the GRUB configuration:

   ```
   sudo update-grub
   ```

7. Reboot the system.
8. When prompted, select Y to accept the EULA (End User's License Agreement) and continue to use the tool.
9. To view all available commands run `-help`.
10. Run `-update-fw` command without device index specification to show all GPU(s) available for update. The device index numbers are listed under the first column labeled Device Index.

```
tester@nv31-tester:~/Downloads$ sudo ./AMDRadeonFirmwareUpdater --help
AMD Firmware Flash Tool Version 1.0.0.81-Public. Copyright© 2022-2025 Advanced Micro Devices, Inc. All rights reserved.
Files
Debug logging related options:
  --debug-log-status arg      (Optional)This switch enables debug logging. By
                              default debug logging is enabled.
                              Usage:
                                  Enable Debug Logging:
                                      --debug-log-status=true
                                  Disable Debug Logging:
                                      --debug-log-status=false


Generic options:
  -h [ --help ] [=arg(=ALL)]  Displays this help text if no argument is
                              specified. If an argument is specified then the
                              help for the specified command is shown.
                              Usage:
                                  --help/h/?
                                  --help/h/? <command>: --help
                              debug-log-filepolicy

  --? [=arg(=ALL)]            Displays this help text if no argument is
                              specified. If an argument is specified then the
                              help for the specified command is shown.
                              Usage:
                                  --help/h/?
                                  --help/h/? <command>: --help
                              debug-log-filepolicy

  --show-progress             Shows progress for any long activity the tool
                              does. Can be used along with any command.
                              Usage:
                                  --show-progress

  --silent
                                      The tool operates silently without
                              displaying any noticeable output except for the
                              primary outcome. Can be used along with any
                              command.
                              Usage:
                                  --silent


Command line switches for the flash capability:
  -u [ --update-fw ] arg      This option is used to instruct the tool to
                              update the firmware of the selected devices the
                              device index needs to be entered with the command
```

```
tester@nv31-tester:~/Downloads$ sudo ./AMDRadeonFirmwareUpdater --update-fw
[sudo] password for tester:
AMD Firmware Flash Tool Version 1.0.0.81-Public. Copyright© 2022-2025 Advanced Micro Devices, Inc. All rights reserved.

Detecting AMD GPU/APU. Please wait...
                                                                        FW
                                                                        Update
Device Index Marketing Name          Current FW P/N    Updated FW P/N   Available
____________ ____________________ _________________ _________________ _________
           0 AMD Radeon RX 7900 GRE  113-D7120100-100  113-D7120100-105       Yes

Please select the devices to update using the following command:
--update-fw [Device Index] i.e --update-fw 0 for device index 0
tester@nv31-tester:~/Downloads$
```

11. To perform a firmware update, run the `--update-fw` command with an argument specifying the index to update. For example `-update-fw 0`

    Update multiple GPUs by entering the GPU index numbers separated by commas.

    For example, use `-update-fw 0,1,2` to update all three GPUs at index 0,1,2 respectively.

```
tester@nv31-tester:~/Downloads$ sudo ./AMDRadeonFirmwareUpdater --update-fw 0
AMD Firmware Flash Tool Version 1.0.0.81-Public. Copyright© 2022-2025 Advanced Micro Devices, Inc. All rights reserved.

Detecting AMD GPU/APU. Please wait...
                                                                    FW
                                                                    Update
Device Index Marketing Name          Current FW P/N    Updated FW P/N    Available
------------ ---------------------- ----------------- ----------------- ---------
           0 AMD Radeon RX 7900 GRE  113-D7120100-100  113-D7120100-105        Yes

Existing FW PartNumber          :   113-D7120100-100
PartNumber of dGPU to be flashed:   113-D7120100-105
---------------------------
Existing FW SSID                :   0xE3B
SSID of dGPU to be flashed      :   0xE3B
---------------------------

Flashed 0x1f0000 Bytes Successfully on GPU at [0] @0000:03:00.0

Succesfully Updated Firmware for AMD Radeon RX 7900 GRE
Part 1 of 2 is complete. Please REBOOT and RERUN the tool to flash using the --update-fw command to complete the flashing process.
```

12. For AMD Radeon RX/PRO 7000 Series and later, the system requires a manual reboot after flashing part 1 of 2. Run the command again to flash part 2 of 2. Save your work before any flash update.

```
tester@nv31-tester:~/Downloads$ sudo ./AMDRadeonFirmwareUpdater --update-fw 0
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Detecting AMD GPU/APU. Please wait...
                                                                    FW
                                                                    Update
Device Index Marketing Name          Current FW P/N    Updated FW P/N    Available
------------ ---------------------- ----------------- ----------------- ---------
           0 AMD Radeon RX 7900 GRE  113-D7120100-100  113-D7120100-105        Yes

Existing FW PartNumber          :   113-D7120100-100
PartNumber of dGPU to be flashed:   113-D7120100-105
---------------------------
Existing FW SSID                :   0xE3B
SSID of dGPU to be flashed      :   0xE3B
---------------------------

Flashed 0x1f0000 Bytes Successfully on GPU at [0] @0000:03:00.0

Succesfully Updated Firmware for AMD Radeon RX 7900 GRE
Part 2 of 2 is complete. Please REBOOT the system to complete the firmware update process.
```

13. After the firmware update is complete, reboot the system and run `-update-fw`. Running this command shows that the firmware update is complete, and no further updates are required.

```
tester@nv31-tester:~/Downloads$ sudo ./AMDRadeonFirmwareUpdater --update-fw
[sudo] password for tester:
AMD Firmware Flash Tool Version 1.0.0.81-Public. Copyright© 2022-2025 Advanced Micro Devices, Inc. All rights reserved.

Detecting AMD GPU/APU. Please wait...
                                                                    FW
                                                                    Update
Device Index Marketing Name          Current FW P/N    Updated FW P/N    Available
------------ ---------------------- ----------------- ----------------- ---------
           0 AMD Radeon RX 7900 GRE  113-D7120100-105  113-D7120100-105         No

No updates are detected for your devices
```

Appendix A: Notices

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