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EDID Override Guide for Bazzite (Immutable Fedora)
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GOAL:

Permanently reduce GPU idle power draw on Bazzite by increasing vertical blanking lines (e.g.

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STEP 0 - MAKE SURE YOU'RE USING X11
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```

Wayland WILL NOT apply custom EDID overrides. You **must** be running an X11 session.

For KDE on Bazzite:

- ```

```
1. Install X11 session support:  
    `sudo rpm-ostree install plasma-workspace-x11`
  2. Reboot:  
    `systemctl reboot`
  3. After reboot, verify X11 is active:
  4. At the login screen:
    - Click the session box in the lower-left corner.
    - Choose 'Plasma (X11)' or similar.
    - Then log in.`echo $XDG_SESSION_TYPE`  
Should return: x11

```

STEP 1 - DETERMINE YOUR DISPLAY CONNECTOR

```

Run this command to see what display outputs are active:

```
for f in /sys/class/drm/card0-*/status; do echo "$f: $(cat "$f")"; done
```

Look for the one that says "connected", e.g.:

```
/sys/class/drm/card0-DP-1/status: connected
```

Note the **\*\*DP-1\*\*** - this is your connector name. You'll use this in the override.

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STEP 2 - OBTAIN A CUSTOM EDID .BIN FILE

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Ask ChatGPT to generate a `` .bin`` file for your specific resolution, refresh rate, and vertical

```
3440x1440 @ 240Hz with 200 vertical blanking lines
```

Save the file as:

```
3440x1440_240Hz_200vb.bin
```

Place it in your firmware folder:

```
sudo mkdir -p /etc/firmware/edid
sudo cp ~/Downloads/3440x1440_240Hz_200vb.bin /etc/firmware/edid/
```

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STEP 3 - APPLY EDID OVERRIDE (Permanent)  
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1. Remove any previous override (just in case):

```
sudo rpm-ostree kargs --delete=drm.edid_firmware
```

2. Add the new override:

```
sudo rpm-ostree kargs --append-if-missing="drm.edid_firmware=DP-1:/etc/firmware/edid/3440x1440_240Hz_200vb.bin"
```

3. Reboot the system:

```
systemctl reboot
```

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STEP 4 - VERIFY  
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To confirm override is active:

```
cat /sys/module/drm/parameters/edid_firmware
```

It should show:

```
DP-1:/etc/firmware/edid/3440x1440_240Hz_200vb.bin
```

To check if GPU clocks are downclocked:

```
sudo watch -n 1 cat /sys/kernel/debug/dri/0/amdgpu_pm_info
```

Look for:

- MCLK ~ 96MHz
- SCLK ~ 9715MHz
- SoC power draw ~ 15-17W

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? BROKEN/UNNECESSARY STEPS (Avoid These)  
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- Editing /etc/sddm.conf.d/10-x11.conf (does not work on Bazzite)
- echo "exec startplasma-x11" > ~/.xsession (ineffective)
- Using /usr/share/xsessions/ to force X11 (gear icon often missing)
- cat /sys/class/drm/\*/status (doesn't show connector names reliably)

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REMINDER  
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You can always ask ChatGPT to:

- ? Generate new EDID .bin files for different blanking values
- ? Troubleshoot EDID overrides on Bazzite or other immutable distros
- ? Help rebase, switch desktops, or apply advanced power optimizations