



NovaCustom

**Revolutionise Your Laptop Experience
with NovaCustom's Hardware and Open-
Source Firmware**



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Why NovaCustom is switching to Dasharo?

- Insyde → Dasharo
- Just better firmware
- Security concerns
- Firmware as open as possible
- Boot time
- Better GNU/Linux support (Ubuntu, Fedora and)
- Keyboard illumination support for all operating systems
- Updateable
- Optimised fan curve
- automation of OS deployment via iPXE
- Endless possibilities (i.e. BIOS password, Intel HAP disable)
- End of 2024
- Why is the firmware transition so slow?
- Skipping every second generation



Firmware update procedure

- Fwupd – update firmware within the OS
- Problem with EC firmware
- Not stored in main SPI flash
- Dasharo Tools Suite (DTS)



Qubes OS certification

- December 2022 ...
- ... April 2023.
- 50 EUR to the Qubes OS project!
- S3 suspend mode / S0ix modern standby
- Windows: Bad S3 support
- BIOS option
- NV41 ADL: successful
- Test phase
- NS5x/NS7x ADL: Missing transistor
- Investigating the possibility to add it
- S0ix is the future (if we like it or not)



Firmware problems

Solved:

- Persistent keyboard illumination
- ISO keyboard issue for non-US layouts NV4x
- The touchpad ON/OFF switch Fn key is not functional
- Trackpad no longer working after 1.3.0 upgrade from 1.1.0

Unsolved for current releases:

- Laptop not starting after fully discharging (NS5x/NS7x ADL)
- BSOD when Ethernet is connected Windows 11





BE ACTIVE! LET'S SOLVE TOGETHER!

<https://github.com/Dasharo/dasharo-issues/issues>



Near future plans

2023:

- 12th Gen Alder Lake (current models)
 - Stability
 - Features
- Probably skipping Raptor Lake (?)
- Financially unfeasible to develop for every gen.

2024:

- 14th Gen Meteor Lake
- For all series we offer



What firmware feature do you want?

Time for questions and further discussions.