

# NUC Info

## NUC6CAYH

General NUC Firmware updates/info: Downloads for Intel® NUC Kit NUC6CAYH

<https://downloadcenter.intel.com/product/95062/Intel-NUC-Kit-NUC6CAYH>

Power Button Menu BIOS Update Instructions for Intel® NUC

<https://www.intel.com/content/www/us/en/support/articles/000006030/mini-pcs.html>

F7 BIOS Update Instructions for Intel® NUC

<https://www.intel.com/content/www/us/en/support/articles/000005850/mini-pcs.html>

BIOS Update [AYAPLCEL.86A]

<https://downloadcenter.intel.com/download/28105/BIOS-Update-AYAPLCEL-86A-?product=95062>

[https://downloadmirror.intel.com/28105/eng/AY\\_0055\\_ReleaseNotes.pdf](https://downloadmirror.intel.com/28105/eng/AY_0055_ReleaseNotes.pdf)

## NUC8i5BEH

CPU: Intel(R) Core(TM) i5-8259U CPU @ 2.30GHz (family: 0x6, model: 0x8e, stepping: 0xa)

Audio chip: Realtek ALC233

Graphics card: Intel Iris 655

Notes:

LMDE3 doesn't have up to date graphics drivers. Linux Mint 19 does. Popping sound on shutdown/reboot can be removed by setting ALSA to mute the soundcard before shutting down:

```
sudo vi /etc/init.d/alsa-utils
```

uncomment the line

```
mute_and_zero_levels "$TARGET_CARD" || EXITSTATUS=1
```

## NUC8 Fan Replacement

Model BSC0805HA-00 Maker Delta Electronics Inc / DC Brushless DC 5V 0.60A

or

AVC BAZB0808R5H DC 5V 0.50A AVC.com

Replace fan instructions: <https://www.ifixit.com/Guide/Fix+NUC8i7BEH+overheating/131345>

Sellers: <https://de.aliexpress.com/item/1005003041859874.html>

<https://www.aliexpress.com/item/1005002713180613.html>

## Various CPU comparisons and benchmarks

j4005	1559		
j3455	2135		
J5005	2904		
i3-5005U	2903		
i3-7100U	3778		
i3-8109u	6167		
i5-8259u	10994	NUC815BEK/BEH	HDMI2.0a/DP1.2viaUSB-C
i5-7260u	5688		
i5-7300u	5964		
i7-7567u	6497		
i7-8559u	12214		
i7-8650u	8838		

<https://nucblog.net/2015/07/installing-windows-7-on-the-nuc5cpyh-or-nuc5ppyh/>

[https://forums.intel.com/s/question/0D50P0000490V8pSAE/windows-7-on-nuc6cayh-and-similar?language=en\\_US](https://forums.intel.com/s/question/0D50P0000490V8pSAE/windows-7-on-nuc6cayh-and-similar?language=en_US)

NUC6i7KYK Core i7-6770HQ 9722

NUC6i5SYK Core i5-6260U 4359

NUC6i5SYH Core i5-6260U 4359

NUC6i3SYK Core i3-6100U 3603

NUC6i3SYH Core i3-6100U 3603

NUC5i7RYH i7-5557U 4951

NUC5i5RYH i5-5250U 3584

NUC5i5RYK i5-5250U 3584

NUC5i3RYH i3-5010U 3054

NUC5i3RYK i3-5010U 3054

NUC5i5MYHE i5-5300U vPro 3814

NUC5i5MYBE i5-5300U vPro 3814

NUC5i3MYHE i3-5010U 3054

NUC5i3MYBE i3-5010U 3054

<https://www.amazon.co.uk/Intel-B0XNUC6i7KYK3-i7-6770HQ-NUC-Kit/dp/B01FWIUZ7W>

<https://www.amazon.co.uk/dp/B077SL4FZG>

```
https://www.amazon.co.uk/Corsair-CMS08GX4M1A2133C15-Select-Mainstream-Notebook/dp/B0143UM6Y0
https://www.amazon.co.uk/Microsoft-Wired-Desktop-Business-Keyboard/dp/B01KUQTFT0/
```

```
Intel Core i5-7500 @ 3.40GHz 5163
Intel Core i5-6500 @ 3.20GHz 7244
```

## Intel Graphics

Mint Intel Driver Config

```
sudo apt-get remove xserver-xorg-video-intel
sudo reboot
```

confirm with

```
inxi -G
```

and

```
grep modesetting /var/log/Xorg.0.log
```

To revert to Intel driver:

```
sudo apt-get install xserver-xorg-video-intel
sudo reboot
```

X 2D performance better on Intel driver vs modesetting with optimised SNA (as opposed to generic GLAMOR)

glxgears

```
/etc/xorg.conf.d/20-video.conf
/etc/X11/xorg.conf
Section "Device"
    Identifier "Card0"
    Driver      "intel"
    BusID      "PCI:0:2:0"
    Option      "AccelMethod"    "SNA"
#   Option      "AccelMethod"    "glamor"
    Option      "DRI"    "3"
EndSection
```

```
$ cat /etc/X11/xorg.conf.d/20-intel.conf
Section "Device"
    Identifier "Intel Graphics"
    Driver      "intel"
```

Option	"AccelMethod"	"sna"
Option	"TearFree"	"true"
Option	"DRI"	"3"

Intel Info: [https://wiki.archlinux.org/index.php/intel\\_graphics](https://wiki.archlinux.org/index.php/intel_graphics)

From:  
<http://wuff.dyndns.org/> - **Wulf's Various Things**

Permanent link:  
<http://wuff.dyndns.org/doku.php?id=config:nuc-info>

Last update: **2023/05/29 11:55**

