

AAEON

PCH Backlight

Linux Driver User Guide

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Revision History

Revision Number	Description	Revision Date
V1.1	Support Ubuntu 23.10.1	2023/12/05
V1.0	Initial Release	2022/09/13

Chapter 1. Install Linux OS

Supported Linux Version

- Ubuntu 23.10.1, Kernel: 6.5.0-13-generic, or above.

Check OS version

\$ lsb_release -a

```
sdd2@ubuntu:~$ lsb_release -a
No LSB modules are available.
Distributor ID: Ubuntu
Description:   Ubuntu 23.10
Release:      23.10
Codename:     mantic
```

Check OS kernel version

\$ uname -r

```
sdd2@ubuntu:~$ uname -r
6.5.0-13-generic
```

Chapter 2. Control the backlight

1. Check LVDS backlight driver

```
t@t:~$ sudo su
root@t: /home/t#
root@t: /home/t# cd /sys/class/backlight/
root@t: /sys/class/backlight# ls
asus-nb-wmi intel_backlight
root@t: /sys/class/backlight# cd intel_backlight
root@t: /sys/class/backlight/intel_backlight#
```

2. Control LVDS brightness

- a. Check the maximum support value of the brightness.

The value of the result is the maximum brightness for this motherboard.

```
root@t:/sys/class/backlight/intel_backlight $ cat max_brightness
```

- b. LVDS brightness OFF:

(Usage: echo [val (0)] > /sys/class/backlight/intel_backlight)

```
root@t:/sys/class/backlight/intel_backlight $ echo 0 >brightness
```

- c. LVDS brightness ON:

(Usage: echo [val (0~[max_brightness])] > /sys/class/backlight/intel_backlight)

```
root@t:/sys/class/backlight/intel_backlight $ echo 48000 >brightness
```