

LG Gram laptop extra features

By Matan Ziv-Av <matan@svgalib.org>

Hotkeys

The following FN keys are ignored by the kernel without this driver:

- FN-F1 (LG control panel) - Generates F15
- FN-F5 (Touchpad toggle) - Generates F21
- FN-F6 (Airplane mode) - Generates RFKILL
- FN-F9 (Reader mode) - Generates F14

The rest of the FN keys work without a need for a special driver.

Reader mode

Writing 0/1 to `/sys/devices/platform/lg-laptop/reader_mode` disables/enables reader mode. In this mode the screen colors change (blue color reduced), and the reader mode indicator LED (on F9 key) turns on.

FN Lock

Writing 0/1 to `/sys/devices/platform/lg-laptop/fn_lock` disables/enables FN lock.

Battery care limit

Writing 80/100 to `/sys/class/power_supply/CMB0/charge_control_end_threshold` sets the maximum capacity to charge the battery. Limiting the charge reduces battery capacity loss over time.

This value is reset to 100 when the kernel boots.

Fan mode

Writing 1/0 to `/sys/devices/platform/lg-laptop/fan_mode` disables/enables the fan silent mode.

USB charge

Writing 0/1 to `/sys/devices/platform/lg-laptop/usb_charge` disables/enables charging another device from the USB port while the device is turned off.

This value is reset to 0 when the kernel boots.

LEDs

There are two LED devices supported by the driver:

Keyboard backlight

A led device named `kbd_led` controls the keyboard backlight. There are three lighting level: off (0), low (127) and high (255).

The keyboard backlight is also controlled by the key combination FN-F8 which cycles through those levels.

Touchpad indicator LED

On the F5 key. Controlled by led device names `tpad_led`.