

NAME

snd_maestro3 - ESS Maestro3/Allegro-1 bridge device driver

SYNOPSIS

To compile this driver into the kernel, place the following lines in your kernel configuration file:

```
device sound
device snd_maestro3
```

Alternatively, to load the driver as a module at boot time, place the following line in loader.conf(5):

```
snd_maestro3_load="YES"
```

DESCRIPTION

The **snd_maestro3** driver provides support for the ESS Maestro3 and Allegro-1 sound chips under the PCM framework. These chips are mostly found in laptop computers and feature an AC97 mixer, a multi-channel sample rate converter that can mix up to four digital audio streams in hardware, recording support, and external volume control buttons.

The firmware for the sound processor is licensed under the GNU Public License, and thus this driver is not included in the default *GENERIC* kernel.

HARDWARE

The **snd_maestro3** driver supports the following audio devices:

- ESS Technology Allegro-1
- ESS Technology Maestro3

DIAGNOSTICS

The hardware volume control buttons can be connected to two different pin sets (GPIO or GD) on the chip, depending on the manufacturer. The driver has no way of determining this configuration, so a hint may be used to override the default guess. The default setting for hardware volume control assumes that GD pins are wired to control the hardware volume. For systems that have the GPIO pins wired to the hardware volume control buttons, add the line "hint.pcm.0.hwvol_config="0"" to the file */boot/device.hints* to override the default setting.

SEE ALSO

sound(4), loader.conf(5)

HISTORY

The **snd_maestro3** driver first appeared in FreeBSD 4.3.

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