### NAME

snd\_es137x - Ensoniq AudioPCI ES137x bridge device driver

#### SYNOPSIS

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

device sound device snd\_es137x

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

snd\_es137x\_load="YES"

### DESCRIPTION

The **snd\_es137x** bridge driver allows the generic audio driver sound(4) to attach to the Ensoniq 137x audio cards.

#### **Runtime Configuration**

The following sysctl(8) variables are available in addition to those available to all sound(4) devices:

hw.snd.pcm%d.latency_timer	Controls the PCI latency timer setting. Increasing this value will
	solve most popping and crackling issues (especially on VIA
	motherboards).

hw.snd.pcm%d.spdif\_enabled

Enables S/PDIF output on the primary playback channel. This sysctl(8) variable is available only if the device is known to support S/PDIF output.

### HARDWARE

The **snd\_es137x** driver supports the following sound cards:

- Creative CT5880-A
- Creative CT5880-C
- Creative CT5880-D

dev.pcm.%d.pollingExperimental polling mode, where the driver operates by querying<br/>the device state on each tick using callout(9). Polling is disabled<br/>by default. Do not enable it unless you are facing weird interrupt<br/>problems or if the device cannot generate interrupts at all.

- Creative CT5880-E
- Creative SB AudioPCI CT4730
- Ensoniq AudioPCI ES1370
- Ensoniq AudioPCI ES1371-A
- Ensoniq AudioPCI ES1371-B
- Ensoniq AudioPCI ES1373-A
- Ensoniq AudioPCI ES1373-B
- Ensoniq AudioPCI ES1373-8

## SEE ALSO

sound(4)

# HISTORY

The **snd\_es137x** device driver first appeared in FreeBSD 4.0.

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