

# FreeBSD

## Multimedia



## Important notice:

Support for multimedia devices is not that great for historical reasons. FreeBSD was initially designed as a server operating system, but that is changing rapidly. Especially sound devices are much better supported now (upcoming FreeBSD 6.1 release, April 2006), stay tuned for more in the near future. HD Audio, Azalia etc. are now being ported to FreeBSD and will be available soon.

## Sound Devices

**Advance:** Asound 100 , 110, Logic ALS120 and ALS4000, AD1816

**AMD:** 768, 8111

**Cmedia:** CMI8338, CMI8738 (sound chips)

**Crystal Semiconductor:** CS461x/462x Audio Accelerator, CS428x Audio Controller

**ENSONIQ:** AudioPCI ES1370/1371, ESS ISA PnP/non-PnP, ES1868, ES1869, ES1879, ES1888, Maestro-1, Maestro-2, and Maestro-2E, Maestro-3/Allegro, ESS Solo-1 (ES1938 Chip), ESS Solo-1E (ES1946 Chipset)

**ForteMedia:** fm801

**Gravis:** UltraSound MAX, UltraSound PnP

**Intel:** 443MX, 810, 815, 815E, Intel 443MX, ICH, ICH revision 1, ICH2, ICH3, ICH4, ICH5, ICH6

**MSS/WSS:** compatible DSPs

**NeoMagic:** 256AV/ZX

**nVidia:** nForce, nForce2, nForce2 400, nForce3, nForce3 250, nForce4

**OPTi:** 931, 82C931

**S3:** Sonicvibes

**Creative Technologies:** SoundBlaster, Pro, AWE-32, AWE-64, AWE-64 GOLD, ViBRA-16, Sound Blaster Live! Und Audigy Serie, SB16, SB32

**SiS:** 7012

**Trident:** 4DWave DX/NX

**VIA Technologies:** VIA VT8233, VIA VT8233A, VIA VT8233C, VIA VT8235, VIA VT8237, VT82C686A

**Yamaha:** DS1, DS1e

## Video-Capture-Devices

**Aopen:** VA1000

**AverMedia:** AVerTV Studio, TF/FM-98

**ATI:** TV Wonder VE

**Hauppauge:** WinCast/TV, WinTV-Go-FM, WinTV-pci, WinTV-radio

**Intel:** Smart Video Recorder III

**KWORLD:** PCI TV Tuner

**Miro:** PC TV

**Pinnacle:** PCTV Pro, PCTV Rave

**PixelView:** PlayTV PAK

**SIGMA:** TV II

**STB:** TV PCI Television Tuner, Super TV Tuner

V-Stream: XPERT TV-PVR 878

**Video Highway:** XTreme

**VideoLogic:** Captivator PCI

**Connectix:** QuickCam

## Digital Cameras

Digital cameras can be classified in two groups:

Mass storage devices:

The camera is driven with the USB driver "umass" and mountable like any external device. The data on the camera can then be copied, moved or removed with any file manager.

General USB devices:

You need the gphoto2 software package, which you can install from Ports or as a package. It recognizes more than 500 different cameras.

## Firewire Devices (chipsets!)

**Adaptec:** AHA-894x/AIC-5800

**Apple:** Pangea, UniNorth

**Intel:** 82372FB

**IOGEAR:** GUF320

**Lucent:** FW322/323

**NEC:** uPD72861, uPD72870, uPD72871/2, uPD72873, uPD72874

**National Semiconductor:** CS4210

**Ricoh:** R5C551, R5C552

**Sony:** CX3022, i.LINK (CXD1947), i.LINK (CXD3222)

**Texas Instruments:** PCI4410A, PCI4450, PCI4451, TSB12LV22, TSB12LV23, TSB12LV26, TSB43AA22, TSB43AB21/A/AI/A-EP, TSB43AB22/A, TSB43AB23, TSB82AA2

**VIA:** Fire II (VT6306)

## Additional Information:

To use multimedia hardware it's not always necessary to build a new kernel. The necessary kernel modules can be dynamically loaded with kldload, see the manual page man kldload for more information.

This is the preferred way of driving such hardware, in case it causes problems. You may automatically load kernel modules at system startup by editing /boot/loader.conf if you like.

If you see something not listed here or have any suggestions, please contact Daniel.Seuffert@allBSD.de, we will update this flyer. Thanks for helping us!