

888Beta_Lion_AppleHDA_v2.1.3 (OS X 10.7.2/.3)-2

Requirements

1. Realtek ALC888/Device_ID: 10ec0888
 - a. Also known as ALC1200
2. Lion 10.7.2/.3 - 64 bit kernel (only)
3. dsdt w/HDEF/Layout-id is 0x78 0x03 0x00 0x00
 - a. For HD3000 HDMI audio; dsdt w/HDEF/layout-id is 0x84 0x01 0x00 0x00
4. Chimera 1.7 or later
5. Kextbeast

Configuration

Device	Port	Location	Notes	Audio ID: 888	Audio ID: 388
1. Mic	Pink	Rear	1 & 2 Linked	Yes	Yes
2. Mic (LineIn)	Pink	Front	2 Mutes 1	Yes	Yes
3. LineIn	Blue	Rear		Yes	Yes
4. SPDIFIn	Yellow	Rear	Not Available		
5. Speakers (Front)	Green	Rear	5 & 6 Linked	Yes	Yes
6. Headphones	Green	Front	6 Mutes 5	Yes	Yes
7. LineOut (Center/Sub)	Orange	Rear		Yes	No
8. LineOut (Rear)	Black	Rear		Yes	Yes
9. LineOut (Side)	Grey	Rear		Optional	No
10. SPDIFOut	Orange	Rear	Stereo/DD/DTS	Yes	Yes
11. HDMI		Rear	Edits Required	AMD/Nvidia	HD3000 Only

Installation

1. Backup S/L/E/AppleHDA.kext
2. Delete ALC8xxHDA, ALC8xx, 8xxHDAEnabler and any other audio enablers from S/L/E
3. Copy AppleHDA.kext from 888Beta_Lion_AppleHDA folder in Downloads to Desktop
4. Run KextBeast
5. Audio ID: 888, goto Step 6.
 - a. Audio ID: 388 (HD3000 HDMI audio); edit dsdt.aml/HDEF/layout_id to 0x84 0x01 0x00 0x00
6. Restart

Speakers

1. Audio ID: 888 and 388, match connector color to same motherboard/case port color

Optional Installs

- 1, Configure 5.1 Surround Sound Aggregate Device (Not available with Audio ID: 388)
 - a. Applications/Utilities/Audio MIDI Setup
 - b. <http://www.tonymacx86.com/viewtopic.php?f=16&t=848>
2. Install Line In - <http://www.rogueamoeba.com/freebies/>

Audio Input Level Setting

1. Mic (Pink/Motherboard), Line In (Pink/Chassis) and Line In (Blue/Motherboard) levels are the same
2. Three Amplifiers
 - a. Source (mic, player, etc.): set volume high
 - b. OS X Input Amp (System Preferences/Sound/Input/device): set volume 50%
 - c. OS X Output Amp (System Preferences/Sound/Output/device, keyboard): set volume to personal preference

Options - AppleHDA binary

1. Standard - Less analog speaker popping
2. Encoded Digital Audio - VLC/Digital Optical surround, analog speakers not recommended
3. Native - no binary editing for audio codec, HDMI audio only (w/dsdt edits), kext testing

Optional AppleHDA binary installation

1. Copy AppleHDA.kext from 888Beta_Lion_AppleHDA folder in Downloads to Desktop
2. Select Desktop/AppHDA.kext from Step 2
3. Finder/Show Package Contents/Contents/MacOS/AppHDA
4. Copy option AppleHDA binary over AppleHDA binary in Step 3
5. Close Finder/Contents/.... window
6. Install

Kexts

1. AppleHDA_v2.1.3
 - a. Audio ID: 888
 - i. 888 on board
 - ii. HDMI audio - discrete graphics
 - b. Audio ID: 388 (HD3000 HDMI audio only)
 - i. 888 on board
 - ii. HDMI audio - HD3000 integrated graphics

888Beta_Lion_AppleHDA Uninstall

1. Copy AppleHDA.kext backup to Desktop (backup from Installation, Step 1, above)
2. Run KextBeast
3. Restart

Troubleshooting

1. Shutdown/Pull power cord/Press power button twice/Wait 30 seconds/Plug power in/Boot
2. System Preferences/Sound/Output - No Audio Devices
 - a. Delete ALC8xxHDA, ALC8xx, 8xxHDAEnabler and any other audio enablers from S/L/E
 - b. Reinstall 888Beta_Lion_AppleHDA/AppHDA.kext
3. System Preferences/Sound/Output/Audio Devices present - No Sound
 - a. Check Mute
 - b. Check Volume
 - c. Reinstall 888Beta_Lion_AppleHDA/AppHDA.kext
4. System Preferences/Sound/Input/Audio Devices present - No Sound
 - a. Check Mute
 - b. Check Volume
 - c. Reinstall 888Beta_Lion_AppleHDA/AppHDA.kext
5. Center/Sub - No sound
 - a. Audio MIDI Setup/5.1 Surround Sound Aggregate Device/Configure Speakers
 - b. Line In/Select Input/Select Output (5.1 Surround)/Select Pass Thru
 - c. Verify Center/Sub working in Audio MIDI Setup
6. Internal Microphone/Line In - No sound
 - a. Audio MIDI Setup/5.1 Surround Sound Aggregate Device/Configure Speakers
 - b. Line In/Select Input/Select Output (5.1 Surround)/Select Pass Thru
 - c. Select a speaker in Audio MIDI Setup/verify test tone
7. Headphone static
 - a. Check green front port connection (chassis)
 - b. Check green rear port connection (motherboard)
8. Mic static
 - a. Check pink front port connection (chassis)
 - b. Check pink rear port connection (motherboard)