889Beta_Lion_AppleHDA_v2.1.3 (OS X 10.7.2)

Requirements
1. Realtek ALC889
2. Lion 10.7.2 - 64 bit kernel (only)
3. dsdt w/HDEF/Layout-id is 0x79 0x03 0x00 0x00
    For HD3000 HDMI audio; dsdt w/HDEF/Layout-id is 0x85 0x01 0x00 0x00
4. Chimera 1.7 or later
5. Kextbeast

Configuration

Device	Port	Location	Notes	Audio ID: 889	Audio ID: 389
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		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 889Beta_Lion_AppleHDA folder in Downloads to Desktop
4. Run KextBeast
5. HD3000 HDMI audio systems only; edit dsdt.aml/HDEF/layout_id to 0x85 0x01 0x00 0x00
6. Restart

Optional Installs
1, Configure 5.1 Surround Sound Aggregate Device (Not available with Audio ID: 389)
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 889Beta_Lion_AppleHDA folder in Downloads to Desktop
2. Select Desktop/AppleHDA.kext from Step 2
3. Finder/Show Package Contents/Contents/MacOS/AppleHDA
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: 889
i. 889 on board
ii. HDMI audio - discrete graphics
b. Audio ID: 389 (HD3000 HDMI audio only)
i. 889 on board
ii. HDMI audio - HD3000 integrated graphics

889Beta_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 889Beta_Lion_AppleHDA/AppleHDA.kext
3. System Preferences/Sound/Output/Audio Devices present - No Sound
a. Check Mute
b. Check Volume
c. Reinstall 889Beta_Lion_AppleHDA/AppleHDA.kext
4. System Preferences/Sound/Input/Audio Devices present - No Sound
a. Check Mute
b. Check Volume
c. Reinstall 889Beta_Lion_AppleHDA/AppleHDA.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)