

Interim_898_Lion_AppleHDA_v1.7.9 (OS X 10.7.3)-1

Requirements

1. Realtek ALC898Device_ID: 10ec0899
2. Lion 10.7.3 - 64 bit kernel (only)
3. For 898 audio, dsdt w/HDEF/Layout-id is 0x82 0x03 0x00 0x00
4. Chimera 1.7 or later
5. Kextbeast

Configuration

Device	Port	Location	Notes	Audio ID: 898
1. Mic	Pink	Rear	1 & 2 Linked	Yes
2. Mic (LineIn)	Pink	Front	2 Mutes 1	Yes
3. LineIn	Blue	Rear		Yes
4. SPDIFIn	Yellow	Rear	Not Available	
5. Speakers (Front)	Green	Rear	5 & 6 Linked	Yes
6. Headphones	Green	Front	6 Mutes 5	Yes
7. LineOut (Center/Sub)	Orange	Rear		Yes
8. LineOut (Rear)	Black	Rear		Yes
9. LineOut (Side)	Grey	Rear		Optional
10. SPDIFOut	Orange	Rear	Stereo/DD/DTS	Yes

dsdt/HDEF Edit (Make dsdt/HDEF edits before installing Interim_898_Lion_AppleHDA.kext)

```
Device (HDEF)
{
    Name (_ADR, 0x001B0000)
    Method (_PRW, 0, NotSerialized)
    {
        Return (Package (0x02)
        {
            0x0D,
            0x05
        })
    }

    Method (_DSM, 4, NotSerialized)
    {
        Store (Package (0x04)
        {
            "layout-id",
            Buffer (0x04)
            {
                0x82, 0x03, 0x00, 0x00
            },

            "PinConfigurations",
            Buffer (Zero) {}
        }, Local0)
        DTGP (Arg0, Arg1, Arg2, Arg3, RefOf (Local0))
        Return (Local0)
    }
}
```

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 Interim_898_Lion_AppleHDA folder in Downloads to Desktop
4. Run KextBeast
5. Audio ID: 898, goto Step 6.
6. Restart

Speakers

1. Audio ID: 898, match connector color to same motherboard/case port color

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

SPDIFOut/Optical

1. SPDIFOut Encoded Digital Audio (Surround Sound) requires DD/DTS source, DD/DTS player (Plex, XBMC, Boxee) and DD/DTS sound system. Audi MIDI Setup/Audio Devices/Digital Output/ always shows 2 Channel Stereo.

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/>

Kext

1. AppleHDA_v1.7.9
 - a. Audio ID: 898
 - i. 898 on board

Interim_898_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 Interim_898_Lion_AppleHDA/AppleHDA.kext
3. System Preferences/Sound/Output/Audio Devices present - No Sound
 - a. Check Mute
 - b. Check Volume
 - c. Reinstall Interim_898_Lion_AppleHDA/AppleHDA.kext
4. System Preferences/Sound/Input/Audio Devices present - No Sound
 - a. Check Mute
 - b. Check Volume

- c. Reinstall Interim_898_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)

Credits

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