

Interim_Ivy_Bridge_Lion_AppleHDA_v1.7.9 (OS X 10.7.3)-1

[b]Requirements [/b]

1. 10.7.3 or newer - 64 bit kernel
2. Realtek audio codecs supported
 - a. ALC887_v100302 only
 - b. ALC888_v100302 only
 - c. ALC889
 - d. ALC892
 - e. ALC898
3. dsdt w/HDEF/layout-id (no dsdt - Note 3)
4. HD Audio (Motherboard and Chassis)
 - a. BIOS - HD Audio Enabled
 - b. Front Panel Audio - HD Audio connector plugged into motherboard front panel audio connector
4. Chimera 1.7 or later
5. KextBeast

Configuration

Device	Port	Loc	Notes	Audio ID: 8xy*	Audio ID: 2xy*
1. Mic	Pink	Rear	1 & 2 Linked	Yes	Line Out (Center/Sub)
2. Mic (LineIn)	Pink	Front	2 Mutes 1	Yes	Yes - only input
3. LineIn	Blue	Rear		Yes	Line Out (Rear)
4. SPDIFIn	Yellow	Rear	Optional		
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	Not Available
8. LineOut (Rear)	Black	Rear		Yes	Not Available
9. LineOut (Side)	Grey	Rear		Optional	Not Available
10. SPDIFOut	Orange	Rear	Stereo/DD/DTS	Yes	Yes

xy* can be 87, 88, 89, 92 or 98.

dsdt/HDEF Edit (Make dsdt/HDEF edits before installing Interim_Ivy_Bridge_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    /* See Audio_ID table below for correct layout-id */
    },

    "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, HDAEnabler8xx and any other audio enablers from S/L/E
 - a. Note: Do not delete HDAEnabler8xx if there is no dsdt.
3. Copy AppleHDA.kext from Interim_Ivy_Bridge_Lion_AppleHDA folder in Downloads to Desktop
4. Run KextBeast
6. Restart

Speakers

1. Audio ID: 8xx, match connector color to same motherboard/case port color
2. Audio ID: 2xy (3 port motherboard audio)
 - a. Plug black connector into blue motherboard port for rear speakers
 - b. Plug green connector into green motherboard port for front speakers
 - c. Plug orange connector into pink motherboard port for center/sub speakers
 - d. Front panel: Match connector color to same 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 Digital Audio (Surround Sound) requires
 - a. DD/DTS source
 - b. DD/DTS player (Plex, XBMC, Boxee)
 - c. DD/DTS sound system.
- Note: Audi MIDI Setup/Audio Devices/Digital Output/ always shows 2 Channel Stereo.

Optional Installs

- 1, Configure 5.1 Surround Sound Aggregate Device
 - 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
2. Audio IDs supported
 - a. Audio ID: 887, layout-id: 887 (dec), 377 (hex), 0x77, 0x03, 0x00, 0x00
 - b. Audio ID: 287, layout-id: 287 (dec), 11F (hex), 0x1F, 0x01, 0x00, 0x00

- c. Audio ID: 888, layout-id: 888 (dec), 378 (hex), 0x78, 0x03, 0x00, 0x00
- d. Audio ID: 288, layout-id: 288 (dec), 120 (hex), 0x20, 0x01, 0x00, 0x00
- e. Audio ID: 889, layout-id: 889 (dec), 379 (hex), 0x79, 0x03, 0x00, 0x00
- f. Audio ID: 289, layout-id: 289 (dec), 121 (hex), 0x21, 0x01, 0x00, 0x00
- g. Audio ID: 892, layout-id: 892 (dec), 37C (hex), 0x7C, 0x03, 0x00, 0x00
- h. Audio ID: 292, layout-id: 292 (dec), 124 (hex), 0x24, 0x01, 0x00, 0x00
- i. Audio ID: 898, layout-id: 898 (dec), 382 (hex), 0x82, 0x03, 0x00, 0x00
- j. Audio ID: 298, layout-id: 298 (dec), 12A (hex), 0x2A, 0x01, 0x00, 0x00

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

MacMan
maleorderbride
psydafke