

# AppleALC - der dynamische AppleHDA Patcher - immer aktuell

Beitrag von „al6042“ vom 18. April 2016, 23:30

Weitere Details findet Ihr unter [AppleALC - der dynamische AppleHDA Patcher](#)

Anbei die Version 1.0.8 mit den unterstützten AudioCodecs:

AD1988B

AD2000B

ALC1150

ALC233

ALC235

ALC255

ALC268

ALC269

ALC270

ALC272

ALC275

ALC280

ALC282

ALC283

ALC284

ALC288

ALC290

ALC662

ALC663

ALC668

ALC882

ALC883

ALC885

ALC887

ALC888

ALC889

ALC892

ALC898

CX20590

CX20751\_2

IDT92HD66C3\_65  
IDT92HD71B7X  
IDT92HD75B2X5  
IDT92HD75B3X5  
IDT92HD81B1X5  
IDT92HD87B1  
IDT92HD87B1\_3  
IDT92HD87B2\_4  
IDT92HD91BXX  
IDT92HD95  
IDT92HD99BXX  
VT1802  
VT2020\_2021

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## **Beitrag von „al6042“ vom 30. April 2016, 15:32**

Und hier die aktuellste Version 1.0.9, mit folgenden Änderungen:

Replace ALC888 patch 11d4198b->10ec0885 it prevents Sound Asserions on layout-id 1, 2, 3  
Deleted unnecessary ALC888 patch 11d41983  
Changed patch for Intel HD4600 HDMI (ig-platform-id 0x0d220003)  
Changed ALC275 Resources  
Deleted not working Intel HD4000 LVDS, HDMI (ig-platform-id 0x0166000A) Laptop only patch  
Added Conexant CX20583 codec support layout-id 3 by Mirone  
Added Conexant CX20585 codec support layout-id 3 by Mirone  
Added Conexant CX20588 codec support layout-id 3 by Mirone  
Added Conexant CX20724 codec support layout-id 3 by Mirone  
Added Conexant CX20752 codec support layout-id 3 by Mirone  
Added Conexant CX20756 codec support layout-id 3 by Mirone  
Added Conexant CX20757 codec support layout-id 3 by Mirone  
Added NoSleep/NoClick pathes to Conexant CX20590 info.plist  
Added ALC280 layout-id 4 Combo Jack Support by Mirone  
Added ALC1150 support for OS X 10.8  
Changed Comment lines for Toleda resources in 1150 info.plist  
Added IDT92HD93BXX codec support layout-id 12

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## **Beitrag von „al6042“ vom 16. Mai 2016, 10:49**

Und hier die aktuellste Version 1.0.10, mit folgenden Änderungen:

Added ALC665 codec support layout-id 12, 13 by insanelydeepak

Added ALC292 codec support layout-id 12

Added ALC283 layout-id 11 for Aspire V3-371 by Slbomber

Added IDT92HD75B3X5 layout-id 11 with a custom pinconfig by olderst

Prohibited kext unloading in policy mode since our policy is registered as static and cannot be unregistered

Bumped module versions to 10.8 to avoid accidental loading on 10.7

Added No-sleep, no-click patches into ALC892 info.plist

Added ALC670 codec support layout-id 12 by Alex Auditore

Added revision-id in ALC889 info.plist

Added ALC260 codec support layout-id 12

Added Creative CA0132 codec support layout-id 11 and 12

Added CirrusLogic CS4213 codec support layout-id 28 by insanelydeepak

Added revision 0x100202 into ALC888 info.plist

Changed not working layout12 and platforms12 for Creative CA0132

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## **Beitrag von „al6042“ vom 10. Juni 2016, 17:54**

Und hier die aktuellste Version 1.0.11, mit folgenden Änderungen:

Added ALC668 layout-id 29 for Asus N750JV by Droid969

ALC887VD Optimization Layout 11 officially will Support AC97 Front Panel like Windows Driver

ALC887VD Optimization Added Layout 11, 12, 13, 17

ALC887VD Optimization Layout 11 Front Mic and Back Mic Fix

ALC887VD Optimization Layout 12 LinIn Fix

ALC887VD Optimization Added AMD Support in all Layouts

ALC887VD Optimization replace several custom platforms.xml.zlib with common platformsID.xml.zlib

Added ALC233 layout-id 4 for ALC3236 codec

Added ALC290 layout-id 4 for ALC3241 codec

Added IDT92HD91BXX layout-id 12 by RehabMan for HP Envy laptops

Changed ALC665 resources by InsanelyDeepak  
Added ALC269VC layout-id 13 for Samsung NP350V5C-S08IT by InsanelyDeepak  
Changed ALC233 resources layout-id 4 for ALC3236 codec  
Added ALC888 layout-id 4 for Laptop by Mirone  
Added ALC892 layout-id 4 for Laptop by Mirone  
Added ALC269VB layout-id 9 for Toshiba Satellite C660-1DR

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## **Beitrag von „al6042“ vom 1. Juli 2016, 08:06**

Und hier die aktuellste Version 1.0.12, für alle Sierra Early-Adopter interessant, mit folgenden Änderungen:

- Lowered minimal OS requirement to 10.8 for ALC269
  - Added ALC269 revision-id 0x100203 support
  - Workaround for booting in 10.12 Beta
  - Added a new version of null (8319D411) patch (now 8A19D411) for 10.12
  - ALC269 deleted unnecessary macOS Sierra patch
  - ALC887 added macOS Sierra patch
  - Added revision-id 0x100005 to ALC275
  - Added ALC271x layout-id 31 for Acer Aspire s3-951
  - Added IDT 92HD90BXX layout-id 3 by Mirone
  - Changed ALC233 layout-id 3 resources
  - ALC662 deleted unnecessary macOS Sierra patch
  - Added layout-id 9, 10 to CA0132 by Andres ZeroCross
  - Fixed MuteGPIO in ALC3236(ALC233) by nguyenc1993
  - Disabled by default on unsupported operating systems (e.g. 10.12), use -alcbeta boot arg to override this
  - Added ALC269 layout-id 32 for Samsung np880z5e-x01ru by Constanta
  - Added CX20561 layout-id 3 by depingzheng
  - Changed CX20561 layout 3 -> layout 11
  - Optimized CX20561 platforms11.xml.zlib
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## **Beitrag von „al6042“ vom 28. August 2016, 12:19**

Und hier die aktuellste Version 1.0.13, mit folgenden Änderungen:

- Improved workaround for 10.12 Beta issues
  - Fixed PAGE FAULT panic on 10.12 Beta
  - Added version information on boot
  - Added ALC898 layout-id 11 for MSI GT72S 6QF-065CN by Irving23
  - Added Conexant CX20724 layout-id 13 by InsanelyDeepak
  - Added Cirrus Logic CS4210 codec support layout-id 13 by InsanelyDeepak
  - Added Realtek ALC275 layout-id 13 by InsanelyDeepak
  - Added Realtek ALC891 codec support layout-id 13 by InsanelyDeepak
  - Added IDT 92HD90BXX layout-id 12 for Dell Latitude E6x20/Dell Precision Mx600 by vusun123
  - Added ALC275 layout-id 28 for Sony Vaio by vusun123
  - Added ALC298 codec support layout-id 13 by InsanelyDeepak
  - Added AD1984A codec support layout-id 11 by MacPeet
  - Added revision-id into AD1984A info.plist
  - Fixed lock acquisition panic in iokit routines on 10.12 Beta
  - **Removed ALC1150 layouts 1-3 to reduce kext size**
- > ACHTUNG: Für alle User, welche die ALC1150 aktuell mit Layout-ID 1 nutzen... Hier sollte die Layout ID auf 11 gewechselt werden, damit Audio mit dieser Version funktioniert.**

Entweder per Clover Config.plist "Devices" -> "Audio" -> "Inject" oder per DSDT Patch im Bereich "Device (HDEF)" von

Code

1. "layout-id",
2. Buffer (0x04)
3. {
4. 0x01, 0x00, 0x00, 0x00
5. },

auf

Code

1. "layout-id",
2. Buffer (0x04)
3. {
4. 0x0b, 0x00, 0x00, 0x00

5. },

**Oder einfach die Version 1.0.14 nutzen...** 😊

- Added ALC1150 layout 11 with boosted microphone (built on 7)

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## **Beitrag von „al6042“ vom 2. September 2016, 19:08**

Und weiter geht's... hier die Version 1.0.14 mit folgenden Änderungen:

- Added ALC290 layout-id 28 for Dell Vostro 5480 by vusun123
- Added ALC292 layout-id 28 for Lenovo T440 vusun123
- Added a few more fixes to lock acquisition panic on 10.12 Beta
- Fixed VT2020/2021 patches for 10.12 Beta by melxman
- Fixed Creative CA0132 patches for 10.12 by nmano
- Added revision-id 0x100002 for Conexant CX20590
- Added ALC233 layout-id 12 for Asus X550LC
- Added revision-id into ALC233 info.plist
- Added CX20590 layout-id 28 for Dell Vostro 3x60 by vusun123
- Added IDT 92HD81B1X5 layout-id 12 for HP Elitebook 8460P by RehabMan
- Added IDT 92HD81B1C5 codec support layout-id 3 by Mirone
- Added ALC298 layout-id 3 with ComboJack by Mirone
- Added ALC233/3236 layout-id 5 by Mirone
- **Added ALC1150 layout-id's 1, 2, 3 by Toleda**

**Unsere Rufe wurden erhört... Für den ALC1150 kann die DSDT wieder normal auf Layout-ID 1 gepatcht werden und die config.plist unter Clover kann ebenso mit dem Wert "1" unter "Inject Audio" weitermachen...** 😊

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## **Beitrag von „al6042“ vom 9. September 2016, 11:49**

Und hier, pünktlich vom Start von Sierra, die Version 1.0.15...

- Added macOS 10.12 to the list of supported systems -> kein -alcbeta mehr nötig!!!
- Added ALC262 codec support layout-id 11 by MacPeet
- Added ALC898 layout-id 13 for MSI GS40 by InsanelyDeepak
- Added ALC887 layout-id 18 by InsanelyDeepak
- Several optimisations to ALC887 resources by InsanelyDeepak
- Removed not working ALC887 layout-id 12 by InsanelyDeepak
- Added revision-id in IDT 92HD91BXX info.plist
- Fixed an undefined behaviour when failing to perform an i/o operation
- Guaranteed null termination for readFileToBuffer buffers

EDIT:

Und auch gleich die Ozmosis-taugliche Variante zur Nutzung in der EFI oder dem ROM selbst.

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## **Beitrag von „al6042“ vom 18. September 2016, 23:22**

Und weiter geht's mit der Version 1.0.16:

- Fixed a rare lock acquisition issue on 10.12
- Fixed a rare kernel panic on initialisation failure
- Improved ALC887 layout-id 11, 13 by InsanelyDeepak
- Added ALC269VC layout-id 33 for NP530U3C-A0F by BbIDE3HAP
- Added ALC898 layout-id 12 with autodetect disabled by D-an-W
- Deleted not working ALC233 layout-id 12
- Added ALC233 layout-id 13 for Asus X550LC by InsanelyDeepak
- Added ALC662 layout-id 11 for Lenovo ThinkCentre M8400t-N000 by Irving23
- Fixed ALC255 macOS 10.12 compatibility issue
- Changed ALC898 layout-id 12 to 28 due to compatibility issue
- Fixed ALC275 macOS 10.12 compatibility issue
- Added ALC255 layout-id 28 for Lenovo B470 by vusun123
- Added Atom Z36xxx/Z37xxx Audio Controller support by masking to 0c0c

## Beitrag von „al6042“ vom 22. Oktober 2016, 00:38

Und auch hier bleibt die Entwicklung nicht stehen, deswegen geht es weiter mit der Version 1.0.17 und folgenden Neuerungen...

- Added C610/X99 Audio Controller r1 support by masking to 8ca0
- Added C610/X99 Audio Controller r2 support by masking to 8ca0
- Disabled Z97 controller patching on 10.10 and newer because it is supported by default
- Fixed ALC272 macOS 10.12 compatibility issue
- Fixed ALC885 and ALC888 macOS 10.12 compatibility issue
- Added ALC888 revision-id 100302
- Fixed CX20585 macOS 10.12 compatibility issue
- Fixed CX20588, CX20590 and CX20724 macOS 10.12 compatibility issue
- Fixed CX20757 macOS 10.12 compatibility issue
- Fixed rest of Conexant codecs for macOS 10.12 compatibility
- Added missing zero patch in IDT 92HD81B1X5 info.plist
- Added ALC892 layout-id 99 for DNS P150EM by Constanta
- Added ALC898 layout-id 5 and 7 by Mirone
- Changed logging to be done by IOLog since printf is broken on 10.12
- Added ALC3236 layout-id 28 for Asus TP500LN by Mohamed Khairy
- Fixed ALC235, ALC260, ALC280, ALC284, ALC288, ALC290, ALC292 macOS 10.12 compatibility issue
- Added ALC233 layout-id 27 for SONY VAIO Fit 14E(SVF14316SCW) by SquallATF
- Fixed all Conexant codecs macOS 10.12 compatibility issue
- Added IDT 92HD81B1X5 layout-id 11 by Andres ZeroCross
- Added ALC887 layout-id 33 for GA-Q87TN by klblk
- Added ALC256 (3246) codec support layout-id 13 by InsanelyDeepak
- Added ALC255 layout-id 13 and 17 by InsanelyDeepak
- Fixed an extremely rare crash on 10.12

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## Beitrag von „al6042“ vom 9. Dezember 2016, 19:47

Und hier, ganz frisch aus der Weihnachts-Backstube, die Version 1.0.18 und folgenden Neuerungen...



- Improved operating system detection
- Decent workaround for 10.12 issues and panics
- Added ALC888S-VD layout-id 11 and 28 for Medion P9614 and E7216 by MacPeet
- Added initial support AD1984 layout-id 11 for IBM\_Lenovo\_ThinkPad\_T61 by MacPeet
- Added ALC272 layout-id 11 for Lenovo B470 by Sam Chen
- Added Laptop Intel Broadwell HD5500/5600 HDMI audio support (ig-platform-id 0x16260006)
- Added Laptop Intel Skylake HD515/520/530 HDMI audio support (ig-platform-id 0x191E0000, 0x19160000)
- Added Desktop Intel Skylake HD530 HDMI audio support (ig-platform-id 0x19120000)
- Fixed Creative CA0132 macOS 10.12 compatibility issue
- Added ALC892 layout-id 92 for GA-Z87-HD3 by BIM167
- Added ALC295 codec support layout-id 28 for Skylake HP Pavilion by vusun123
- Added IDT92HD81B1X5 layout-id 20 and 21 by Sergey\_Galan for HP ProBook 4520s and HP DV6-6169er
- Added IDT92HD81B1X5 layout-id 28 by Gujiangjiang for HP Pavilion g4 1000 series

EDIT:

Mit großem Entsetzen musste ich heute Abend feststellen, dass der Kext im ZIP-File "AppleALC-OZM.kext.zip" unter Ozmosis zu einem Black-Screen beim Booten führen kann.

Sollte es jemandem von Euch passiert sein, bitte ich hiermit um Entschuldigung.

Der eben hier platzierte Kext im ZIP-File "AppleALC-OZM.kext.zip" funktioniert einwandfrei...

## Beitrag von „al6042“ vom 8. Februar 2017, 07:43

Zurück aus dem Krankenstand und direkt die neue Version 1.0.19 gefunden... 😊

Diese umfasst folgende Neuerungen:

- Added ALC269 layout-id 35 for Samsung NP350V5C-S0URU by Mirone
- Added Conexant CX20755 layout-id 3 by Mirone
- Added ALC269VB layout-id 76 for ENZ C16B by jimmy19990
- Added UserPatches.plist for internal testing
- Added ALC269VB layout-id 11 for Dell Precision Workstation T1600 by Mosser
- Recovered Creative CA0132 macOS 10.12 patch due to caused issues
- Maximised zlib resource compression level
- Added stripping of tabs and new lines in resources
- Added ALC236 layout-id 11 Initial support by Jake Lo (forum.osxlatitude)

- Added ALC269VC layout-id 14 for Samsung NT550P7C-S65 with subwoofer 2.1ch by Rockjesus
  - Added Laptop Intel Skylake HD530 HDMI audio support (ig-platform-id 0x191B0000)
  - Added revision-id 0x100001 into ALC236 info.plist
  - Added ALC293 codec support layout-id 28, 29 for Lenovo T460/T560 by tluck
  - Added Conexant CX20751\_2 HDMI/DisplayPort Output fix by syscl
  - Added ALC282 layout-id 29 for Dell Inspiron 3521 by Generation88
  - Added ALC293 layout-id 11 for Dell E7450 by Andres ZeroCross
  - Update PinConfig data for ALC269 layout-id 27 by Andrey1970
  - Added ALC3236 (ALC233) layout-id 29 for Asus X550LDV by Mirone
  - Added Conexant CX20722 codec support layout-id 3 by Mirone
  - Added Conexant CX20753/4 codec support layout-id 3 by Mirone
  - Added Conexant CX8050 codec support layout-id 3 by Mirone
  - Added Conexant CX8200 codec support layout-id 3 by Mirone
  - Added revision-id 0x100103 for ALC885
  - Added ALC269VB layout-id 15 for Dell Optiplex 790 by [@MacPeet](#)
  - Allowed building for 10.8 without using 10.8 SDK
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## Beitrag von „al6042“ vom 22. Februar 2017, 19:40

Ist ein Versions-Sprung von 1.0.x nach 1.1.x nun gleichbedeutend wie der Durchbruch der Schallmauer?

In Bezug auf einen Audio-Kext finde ich das ein nettes Wortspiel... 😊

Und hier die Version 1.1.0 mit folgenden Neuerungen:

- AppleALC now has its kernel patcher moved to Lilu.kext
- Added Intel 200 Series Audio controller support by chrome
- Fixed typo in PinConfigs.kext for ALC233 layout-id 29
- Added 10.8 support to ALC282
- Added ALC286 layout-id 3 initial support by Mirone
- Added ALC888S-VD layout-id 29 for MedionP8610 by MacPeet
- Added IDT 92HD73C1X5 layout-id 19 for Dell Studio 1535 by chunnann
- Added ALC269 layout-id 19 for Asus Vivobook S300CA by chunnann
- Added ALC283 layout-id 66 for ASRock DeskMini 110(H110M-STX) by licheedev
- Optimize and compress ALC283 resources from previous commit
- Added ALC256 layout-id 28 for Asus X555UJ by vusun123
- Added Realtek ALC1220 initial support layout-id 11 by truesoldier
- Update PinConfig for ALC1220 by truesoldier

Somit wird auch erstmals der ALC1220 der neuen KabyLake-Boards unterstützt...

Neuerungen müssen aber nicht immer auch Vorteile haben.

Die Macher des AppleALC haben in dieser Version den eigentlichen Kext-, Prozess- und Library-Patcher, herausgelöst und als eigenen Kext bereitgestellt: [Lilu - Generic kext patcher \(neue Grundlage für AppleALC 1.1.x und Shiki 2.x.x\)](#)

**Ohne diesen, wird die vorliegende Version vom AppleALC nicht geladen.**

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## **Beitrag von „al6042“ vom 2. April 2017, 10:51**

Und weiter gehts mit der Version 1.1.1.

Folgende Neuigkeiten wurden hinzugefügt:

- Requires Lilu 1.1.0 or newer
- Fixed IDT92HD71B7X macOS 10.12 compatibility issue
- Added IDT92HD91BXX revision-id 0x100303
- Added CX20722 menubar patch for 10.10 and above by Wern Apfel
- Added CX20724 menubar patch for 10.10 and above by Wern Apfel
- Added CX20751/2 menubar patch for 10.10 and above by Wern Apfel
- Updated ALC269VB layout-id 11 for Dell Precision Workstation T1600 by Mosser
- Added ALC1220 layout-id 5 and 7 by Mirone
- Added ALCS1220A layout-id 5 and 7 by Mirone
- Increased replacement count for several SKL hdmi patches to workaround matching sequence issues by Andrey1970
- Update Intel HD4000 HDMI patches for 0x01660009 and 0x0166000A by Andrey1970
- Implemented simple byte sequence deduplication to reduce kext size
- Update pinconfig for ALC1220 layout-id 11 by truesoldier
- Added IDT92HD71B7 menubar patch for 10.10 and above by Wern Apfel
- Added IDT92HD91BXX ambient noise reduction to layout-id 12
- Added ALC887 revision-id 0x100202
- Changed ALC255 layout-id 3 resources by Mirone. It should fix kernel task loading issue
- Added CA0132 layout-ids 0-6 by Wern Apfel

- Fix CX20756 typo in layout3.xml.zlib

Die Macher des AppleALC haben auch in dieser Version den eigentlichen Kext-, Prozess- und Library-Patcher, herausgelöst und als eigenen Kext bereitgestellt: [Lilu - Generic kext patcher \(neue Grundlage für AppleALC 1.1.x und Shiki 2.x.x\)](#).

**Ohne diesen, wird die vorliegende Version vom AppleALC nicht geladen.**

Ozmosis-taugliche Version liegt bei.

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**Beitrag von „Noir0SX“ vom 3. Juni 2017, 09:24**

Auch hier gibt es was neues ....

### V1.1.2

- Added ALC225 layout-id 28 for Dell Inspiron 7579 by ChalesYu
- Added ALC298 layout-id 28 for Dell XPS 9x50 by vusun123
- Changed ALC290 layout-id 28 resources Mic & Line In Fix by vusun123
- Added VIA VT1802 layout-id 33 for asus S400CA by ChalesYu
- Added IDT92HD91BXX layout-id 33 for HP Envy by jl4c
- Added ALCS1220A layout-id 1, 2 for ASUS 200 series by Toleda
- Added ALC1220 layout-id 1, 2 for 200 series by Toleda
- Added ALC662 layout-id 12 for Lenovo ThinkCentre M800 by stich86
- Added ALC892 layout-id 28 for Clevo P751DMG by crysehillmes
- Added ALC269VC layout-id 40 for Lenovo W530 by vusun123
- Added ALC280 (ALC3220) layout-id 11 for Alienware alpha (ONLY SPDIF) by ganxiao
- Added ALC662 layout-id 13 by Vandroiy for Asus X66Ic, Asus K61Ic, Asus K70Ic
- Added SPDIF support to ALC887 layout-id 99
- Added Conexant CX20590 revision-id 0x100000
- Added revision-id 0x100002 in ALC670 info.plist
- Added ALC288 layout-id 13 for Dell XPS 9343 by InsanelyDeepak
- Added ALC286 revision-id 0x100003
- Added OSBundleCompatibleVersion

**Achtung** Benötigt [Lilu.kext](#)

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### Beitrag von „Noir0SX“ vom 29. Juni 2017, 23:45

#### v1.1.3

- Fixed ALC889 info.plist min/max kernel
- Added Desktop Intel Kaby Lake HD630 HDMI audio support (ig-platform-id 0x59120000)
- Added Conexant CX20756 layout-id 13 by InsanelyDeepak
- Added ALC282 layout-id 13 by InsanelyDeepak
- Fixed separate layout/platform injection
- Added AppleHDA8086\_9D70Controller for 10.13
- Changed ALC255 layout-id 13 & 17 by InsanelyDeepak
- Fixed typo in ALC255 CodecID

- Fixed audio reenable after kextunload/kextload AppleHDA
- Added -alcldhost argument to enable custom audio drivers in 10.12+ (e.g. Audirvana)
- Added ALC255 layout-id 27 for Asus X556UA m-dudarev

**Achtung** Benötigt [Lilu.kext](#)

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## **Beitrag von „Noir0SX“ vom 27. August 2017, 20:50**

### **v1.1.4**

- Added High Sierra to the list of compatible OS
- Added ALC295/ALC3254 layout-id 3 by Mirone
- Added ALC298 layout-id 72 for Dell XPS 9560 by KNNSpeed
- Added ALC236 layout-id 3 by Mirone
- Added ALC236 layout-id 13 for Lenovo Air 13 Pro by rexx0520
- Added a workaround for xnu printf limitations
- Added ALC235 layout-id 11 for lenovo by soto2080
- Disabled redundant warnings for non-debug mode by PMheart
- Added AMD R9 290X HDMI patches
- Fix ALC236 layout 13's Headphone amplification
- Added ALC260 layout-id 11 for Fujitsu Celsius M 450 by MacPeet
- Added AD1984A layout-id 13 for Dell Optiplex760/780 by MacPeet
- Added ALC269VB layout-id 16 for Dell Optiplex 790 by MacPeet

**Achtung** Benötigt [Lilu.kext](#)

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## **Beitrag von „al6042“ vom 20. Oktober 2017, 20:35**

Und hier noch die Version 1.2.0 mit dedizierter Ozmosis-Version...

Verbaut sind dort folgende Neuerungen:

- Requires Lilu 1.2.0 and higher (Passenden Lilu findet ihr hier -> [Lilu - Generic kext patcher \(neue Grundlage für AppleALC 1.1.x und Shiki 2.x.x\)](#))

)

- Added Lilu 1.2.0 safe mode loading compatibility
  - Added Intel Broadwell HD6000 HDMI audio support (ig-platform-id 0x16260004)
  - Added ALC262 layout-id 12 for HP Compaq dc7700 SFF by Goldfish64
  - Added Intel 200 Series Mobile HDA controller 0xA171 support
  - Added IDT92HD81B1C5 layout-id 11 for Dell Latitude E6410 by Goldfish64
  - Added ALC898 layout-id 99 for MSI GP62 Leopard Pro by edward-p
  - Correct issues with layout 11 for IDT92HD81B1C5 for Dell Latitude E6410
  - Added ALC221 layout-id 11 for HP Compaq Pro 4300/Pro 6300/Elite 8300 by Goldfish64
  - Added ALC892 layout-id 31 for Clevo P65xSE/SA by Derek Zhu
  - Added Conexant CX20585 layout-id 13 for Toshiba L755-16R by Constanta
  - Added ALC889 layout-id 11 for Medion P4020 D by MacPeet
  - Update ConfigData for ALC898 layout-id 99
  - Update ALC269 layout-id 16 by MacPeet
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### **Beitrag von „al6042“ vom 12. November 2017, 12:25**

Jetzt auch in Version 1.2.1 mit folgenden Neuerungen erhältlich:

- Added ALC298 layout-id 11 for Alienware 17 (ALC3266) by Rockjesus
  - Added VIA VT2020/2021 layout-id 9 by SonicBSV
  - Added ALC269 layout-id 18 for Thinkpad X230 by Hypereitan
  - Added ALC235 layout-id 28 for Lenovo Legion Y520 by vusun123
  - Added ALC898 layout-id 65 for CLEVO P65xRS(-G) by datasone
  - Added ALC298 layout-id 29 for Lenovo X270 by vusun123
  - Added ALC292 layout-id 18 for Dell Precision M4800/M6800 by vanquybn
  - Added IDT92HD87B1/3 layout-id 13 by InsanelyDeepak
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### **Beitrag von „al6042“ vom 4. Februar 2018, 12:12**

Und hier noch nachträglich die Version 1.2.2, mit folgenden Neuigkeiten:

- Added ALC256 layout-id 56 for Dell 7000 by DalianSky
- Added ALC298 layout-id 47 for ThinkPad T470P by DalianSky
- Update ALC269 layout27.xml.zlib by Andrey1970
- Added ALC269 layout-id 93, 99 and 127 by Andrey1970 (No input boost - no noise in Siri)
- Added ALC671 layout-id 12 for Fujitsu-Siemens D3433-S (Q170 chip) by MacPeet
- Added ALC280 layout-id 13 and 15 for DELL T20 by MacPeet
- Added ALC262 layout-id 13 for Fujitsu Celsius H270 by MacPeet
- Added ALC891 layout-id 11 for HP Pavilion Power 580-030ng by MacPeet
- Added ALC282 layout-id 76 for Hasee K580C by YM2008
- Fix desktop HD4000 id by Andrey1970
- Added IDT92HD91BXX layout-id 84 for HP Elitebook 840 G1 by macish
- Added ALC295 layout-id 13 for Dell7570 by DalianSky
- Added ALC298 layout-id 99 for XiaoMIPro by DalianSky
- Added ALC283 layout-id 1 for NUC/BRIX by Toleda
- Added ALC255 (3246) layout-id 99 for XiaoMi Air by DalianSky
- Added ALC236 layout-id 15 for Lenovo Ideapad 500-15ISK by MacPeet
- Added ALC892 layout-id 98 with working SPDIF

Man achte mal bitte auf die vielen Beiträge im Kext von [@MacPeet...](#)

Hut ab und vielen Dank für deine Unterstützung in diesem umfangreichen Themengebiet... 👍

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## Beitrag von „Noir0SX“ vom 10. März 2018, 10:37

### v1.2.3

- Added alcid=layout boot argument for testing purposes
- Added automatic rename for HDEF device
- Added ALC255 layout-id 18 for Aorus X5V7 by DuNe
- Change Platforms18.xml.zlib for ALC255 by DuNe
- Added ALC898 layout-id 101 by Andrey1970 (4 Line Out)
- Added ALC262 layout-id 28 for HP Z800-Z600 series by MacPeet
- Added ALC225 layout-id 33 by ChalesYu
- Added ALC282 layout-id 127 No input boost Acer Aspire on IvyBridge by Andrey1970
- Added ALC294 layout-id 13 by InsanelyDeepak
- Added IDT92HD91BXX layout-id 13 for HP Envy 6 1171-SG by MacPeet



Achtung Benötigt [Lilu.kext](#)

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## Beitrag von „al6042“ vom 30. März 2018, 12:25

Und ganz frisch, aus dem Kext-Osternest, die Version 1.2.4, mit folgenden Neuerungen:

- Added ALC269 layout-id 10 (toleda) for Brix by ttimasdf
  - Added ALC663 layout-id 99 for ASUS N71J by alex1960
  - Added CX20641 layout-id 11 and layout-id 13 for Dell OptiPlex 3010 or compatible by MacPeet
  - Added CX20642 layout-id 11 and layout-id 13 for Fujitsu ESPRIMO E910 E90+ or compatible by MacPeet
  - Added NVIDIA HDMI patches for GK208, GM206, GP102, GP106 for 10.13.4+ by FredWst
  - Added Intel HDMI patches for Haswell 0x0A260005 by Andrey1970
  - Added NVIDIA HDMI patch for GM200 by al3xtjames
- 

## Beitrag von „Noir0SX“ vom 9. April 2018, 05:29

### v1.2.6

- Fixed a rare kernel panic due to use-after-free in verb code at waking from sleep

### v1.2.5

- Implemented verb execution after wake (via WakeVerbReinit in PinConfigs), obsoletes CodecCommander in fixed resources
- Implemented custom verbs for wake (via WakeConfigData in PinConfigs), ConfigData is used by default
- Merged PinConfigs into AppleALC main binary by default for compatibility reasons
- Hardened solved symbol verification to avoid panics with broken kext cache
- Added PinConfigurations injection, since they provide useful debugging info
- Added NVIDIA HDMI patch for GM204 for 10.13.4+
- Added ALC233 layout-id 33 for ASUS VIVOBOK S451LA by MacPeet
- Added HD3000 desktop and laptop HDMI patches
- Added wake verbs for ALCS1220A layout-id 1, 2, 5, 7 to avoid the need of

CodecCommander

- Added EAPD wake verbs to all ALC 221, 225, 233, 235, 236, 255, 256, 270, 271, 272, 284, 286, 288, 290, 293, 295 by Vandroiy
  - Added EAPD wake verbs to some ALC 269, 275, 280, 282, 283, 292, 294, 298, 662, 663, 668, 887, 888, 889, 892, 898, 1150 by Vandroiy
  - Fixed broken AFGLowPowerState, LayoutID and other fields in several PinConfigs info.plist
  - Fixed rare kernel panics due to short incompatible HDEF controller patches affecting other code
- 

## **Beitrag von „kuckkuck“ vom 16. April 2018, 22:11**

**Ab v.1.2.5 ist für Ozmosis keine spezielle AppleALC-OZM.kext Version mehr nötig!**

### **v1.2.7**

- Added NVIDIA HDMI patch for GP107 and GP108 for 10.13.4+
  - Added NVIDIA HDMI patch for GP104 for 10.13.4+
- 

## **Beitrag von „Noir0SX“ vom 20. Juli 2018, 10:41**

### **v1.3.0**

- Requires Lilu 1.2.5 and higher and enabled on 10.14 by default
- Added digital audio property injection for AMD, Intel, NVIDIA
- Added NVIDIA multi-gpu NVIDIA HDAU patch support
- Added ALC269VC layout-id 30 for Hasee Z6SL7R3 by HF

<https://github.com/acidanthera/AppleALC/>

Braucht Lilu <https://github.com/acidanthera/Lilu>

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## Beitrag von „anonymous\_writer“ vom 4. August 2018, 22:27

### v1.3.1

- > Fixed incorrect unused HDAU termination
- > Fixed pinconfig refresh causing random init failures
- > Added ALC225/ALC3253 layout-id 30 for Dell Inspiron 17-7779 by Constanta
- > Added ALC295 layout-id 12 for Asus UX430 by hieplpvip
- > Added Realtek ALC256 (3246) layout-id 11 for dell 7559 by Rockjesus
- > Added ALC887 layout-id 50 for Asus PRIME B250-PLUS by 0th3r
- > Added ALC295 layout-id 12 for HP Envy x360 15-bp107tx by Damon

Für diesen Kext wird min [Lilu.kext](#) V1.2.6 benötigt.

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## Beitrag von „Noir0SX“ vom 11. September 2018, 13:25

### v1.3.2

- Added ALC269 layout-id 45 for Asus A45A and K45 by maiconjs (Wolfied)
  - Added WakeConfigData for ALC892 layout-id 1 by FredWst
  - Added ALC295 layout-id 14 for Asus UX430UA by InsanelyDeepak
  - Added ALC295 layout-id 15 for ALC295/ALC3254 by InsanelyDeepak
  - Remove duplicate resources for ALC295 layout-id 12 on Asus UX430
  - Added ALC230 layout-id 13 for Lenovo 310-14ISK by Andres
- 

## Beitrag von „Noir0SX“ vom 30. Oktober 2018, 16:20

### v1.3.3

- Added ability to disable controller patching by injecting property 'no-controller-patch' (for use of FakePCIID\_Intel\_HDMI\_Audio)

- Fixed volume control for CX8200 with Wern Apfel patch from CX20724
- Fixed patches for IDT92HD872\_4 (IDT 76d9)
- Added ALC235 layout-id 14 for Lenovo Y520/Y720 series by the-braveknight
- Added ALC230 layout-id 20 for Lenovo Ideapad 320 by maiconjs
- Added ALC887-VD AD0 layout-id 20 for Asus Z97M-PLUS/BR by maiconjs
- Added ALC887-VD layout-id 40 for Asus B85-ME by maiconjs
- Added ALC236 layout-id 16 for Lenovo Ideapad 320s 14ikb by RodionS
- Added ALC885 layout-id 15 for GA-G33M-DS2R by MacPeet
- Added ALC662 layout-id 15 for Acer Aspire A7600U All in One by MacPeet
- Added ALC255 layout-id 30 for XiaoMi Notebook Air by HongyuS
- Added CX20590 layout-id 13 and 14 for Lenovo T420 by tluck
- Added ALC283 layout-id 44 for ThinkCentre M93z 10AF ALC283 by giesteira
- Added ALC662v3 layout-id 16 for Lenovo ThinkCentre M92P SFF by phucnguyen.2411
- Added ALC282 layout-id 22 for Lenovo Y430P by lovert
- Fixed CX20756 layout-id 13
- Added ALC892 layout-id 15 for MSi Z97S SLI Krait Edition by MacPeet
- Fix volume control for CX20756 layout-id 13 and external mic minor changes/fixes

## Beitrag von „Noir0SX“ vom 2. Januar 2019, 15:05

### v1.3.4

- Disabled AppleGFXHDA matching onto HDEF to force AppleHDA usage
- Added Wern Apfel's menubar patch for CX20590
- Added ALC255 layout-id 21 for Asus X441UA-WX096D by Andres ZeroCross
- Added ALC255 layout-id 21 for Asus VivoBook Pro 15 CX8150 by Andres ZeroCross
- Added ability to disable controller injection with property `no-controller-inject`
- Added SigmaTel STAC9200 layout-id 11 for Dell Precision 390 by Goldfish64
- Added support for HDMI Audio of Alienware Alpha GTX860M
- Added ALC1220 layout-id 15 for MSI WT75 Laptop by fleaplus.
- Fix ConfigData in ALC256 (3246) for Dell Series by Insanelydeepak
- Added ALC298 layout-id 21 for Lenovo 720S-15IKB by Andres ZeroCross
- Added ALC236 layout-id 99 for Lenovo Air 13 IWL by DalianSky
- Fix speaker volume slider CX8050
- Enable NVIDIA HDMI patches for laptop GPUs
- Added ALC280 layout-id 21 for Dell Precision T7610 Workstation by Andres ZeroCross
- Added ALC295 layout-id 21 for Acer Nitro 5 Spin (NP515-51) by Andres ZeroCross
- Added VIA VT1705 layout-id 21 for ECS H81H3-M4 (1.0A) by Andres ZeroCross
- Added ALC269 layoutid=88 for MECHREVO X8Ti Plus by DalianSky

- Added ALC662 layout-id 17 for HP Compaq Elite 8000 SFF by aloha\_cn
  - Added ALC288 layout-id 23 for Dell XPS 9343 by yyfn
  - Added ALC892 layout-id 16 for MSI GL73-8RD by MacPeet
  - Change CX20585 layout-id 13 resources
  - Added ALC887 layout-id 52 for Asus PRIME Z270-P by ctich
  - Added AD1984A layout-id 44 by Giesteira
  - Added ALC269 layout-id 44 for Samsung \_NP350V5C by Giesteira
  - Added ALC269 layout-id 17 by MacPeet
  - Added ALC1220 layout-id 16 for Gigabyte Z390 by MacPeet
- 

## **Beitrag von „Noir0SX“ vom 22. März 2019, 14:31**

### **v1.3.6**

- Update Revision 0x100001 for CX20751/2 (Toshiba Kira 107)
  - Added ALC255 layout-id 15 for Gigabyte Brix BRi5(H), BRi7(H)] by najdanovicivan
  - Added ALC295/ALC3254 for Dell Latitude 5290 by Unbelievable9
  - Fix ALC1220 audio after sleep
  - Added ALC1220 layout-id 27 for Gigabyte-Z370-HD3P by lostwolf
  - Added ALC299 layout-id 22 for Dell XPS 13 by andreszerocross
  - Added ALC887-VD layout-id 87 for GA-Z97-HD3 ver2.1 by varrtix
  - Update resources for ALC236 layout-id 18 by xiaoMGitHub
  - Added CX20753/4 layout-id 15 for Lenovo Thinkpad E580 by MacPeet
  - Added CX20753/4 layout-id 14 by InsanelyDeepak
  - Change ALC887 layout-id 52 for Asus PRIME Z270-P by ctich
  - Added ALC887 layout-id 53 for Asus PRIME Z270-P by ctich
- 

## **Beitrag von „arigata9“ vom 17. Mai 2019, 21:02**

### **v.1.3.7**

- VT2020\_2021 anticlick patches by chrome
- VT1802 anticlick patches by chrome
- VT1705 anticlick patches by chrome
- AD2000B anticlick patches by chrome
- AD1988B anticlick patches by chrome

- CA0132 added some anticlick patches by chrome
  - STAC9200 10.14.4 compatible anticlick patch by chrome
  - ALCS1200A 10.14.4 compatible anticlick patch by chrome
  - ALC891 10.14.4 compatible anticlick patch by chrome
  - ALC1150 10.14.4 compatible anticlick patch by chrome
  - Update resources for ALC298 layout-id 99 for [XiaoMi Pro](#) by stevezhengshiqi
  - Added ALC235 layout-id 16 for ASUS GL553VD by MacPeet
  - Added ALC256 layout-id 57 for huawei honor magic book by ROSstudy
- 

## Beitrag von „Noir0SX“ vom 24. Mai 2019, 17:21

### v1.3.8

- Fixed rare random audio init failure on 10.14
  - Added ALC255 (3246) layout-id 100 for alienware alpha r2 by DalianSky
  - Added ALC262 layout-id 7 for MS-7480N1 by DalianSky
  - Added ALC236 layout-id 54 for DELL-5488 by Daggeryu
  - Added ALC280 layout-id 16 for Optiplex 9020SFF by cowpod
  - Added ALC1220 layout-id 34 for MSI P65 Creator Laptop by CleverCoder
  - Added ALC892 layout-id 97 for Hasee K770e i7 D1 (P170sm-a) by gitawake
  - Fix Typo/Update Pinconfig ALC294 layout21 by Andres and Add HDAController patch for WhiskeyLake Notebook
  - Update PathMap for ALC298 layout-id 99 for XiaoMi-Pro
  - Added ALC892 layout-id 17 for MSI B150M MORTAR - SwitchMode by MacPeet
  - Added ALC892 layout-id 18 for MSI B150M MORTAR - ManualMode by MacPeet
  - Added ALC1220 layout-id 28 for Z390 Aorus Ultra - Output SP/HP Manualmode by MacPeet
  - Added VT1802 layout-id 65 for hasee K650D by ivothgle
  - Added ALCS1220A layout-id 20 and 21 for Asus ROG STRIX Z370-F Gaming by RodionS & Nacho
  - Added ALC270 layout-id 21 for Asus A46CB-WX024D Laptop by Andres ZeroCross
- 

## Beitrag von „Noir0SX“ vom 3. Juli 2019, 15:47

### **v1.3.9**

- Allow loading on 10.15 without `-lilubetaall`
  - Added ALC272 layout-id 18 for Lenovo B570 and B570e by Sniki
  - Added Conexant CX8070 (CX11880) layout-id 15 for Lenovo ThinkPad E590 by MacPeet
  - Added ALC1220 layout-id 29 for Z390 Aorus Ultra - Output SP/HP SwitchMode by MacPeet
  - Added Conexant CX8200 layout-id 15 for HP Zbook 15UG4 by MacPeet
  - Update AD1984 layout-id 11 by MacPeet
  - Added ALC663 layout-id 15 for Fujitsu Celsius r670 by MacPeet
  - Added ALC700 layout-id 11 for NUC HC
  - Added AMD Vega-M HDMI
  - Added ALC235 layout-id 12 for Lenovo Rescuer 15ISK by Z39
  - Added ALC235 layout-id 21 for Lenovo C530 Desktop PC by Andres ZeroCross
  - Added ALC256 layout-id 22 for Asus VivoBook Pro 17 N705UDR by Andres ZeroCross
  - Added ALC255(3234) layout-id 11 for dell optiplex by Heparis
  - Added ALC256 layout-id 14 for Dell Series with Subwoofer courtesy of [@insanelydeepak](#)
  - Update ALC892 layout-id 97 by gitawake
  - Update ALC298 layout-id 66 for MECHREVO S1 by lgs3137
  - Added ALCS1220A layout-id 11 for Asus Z270-G (based on Mirone's layout 7) by Kushamot
- 

### **Beitrag von „Noir0SX“ vom 11. August 2019, 14:48**

#### **v1.4.0**

- Unified release archive names
  - Added AMD Zen 2 controller patches by camielverdult
  - Added ALC274 layout-id 21 for Dell Inspiron 27-7777 AIO Series by Andres ZeroCross
  - Added ALC257 layout-id 18 for Lenovo Legion Y540 and Y7000-2019 by xiaoMGitHub
  - Added ALC289 layout-id 23 for Acer PT515-51 By Bugprogrammer and Rover
  - Added ALC285 layout 31 for Thinkpad X1E 8750H version by Flymin
- 

### **Beitrag von „Noir0SX“ vom 7. September 2019, 15:37**

#### **v1.4.1**

- Fixed memory leaks

- Added AMD Radeon R9 Fury/R9 Fury X HDMI audio support
  - Added ALC256 layout-id 66 for ASUS Y5000U X507UBR by lgs3137
  - Added ALC235 layout-id 22 for Asus ROG GL553VD-FY380 by Andres ZeroCross
  - Added ALC892 layout-id 90 for GIGABYTE B360M M AORUS PRO by xunyard
  - Added ALC298 layout-id 32 for XPS 9570 8750H version by smallssnow
  - Added ALC292 layout-id 55 for Dell Latitude E6440/E6540 with docking station linein/lineout support by baesar0
  - Added ALC256 layout-id 97 for MateBook X Pro 2019 by DalianSky
  - Added ALC269 layout-id 100 for GPD P2 Max by DalianSky
  - Merged Lenovo Air13 IWL with WhiskeyLake Mobile PCH HD Audio
  - Added CX8200 layout-id 23 for HP Probook 440 G5 by frankiezd
- 

## **Beitrag von „Noir0SX“ vom 8. Oktober 2019, 16:47**

### **v1.4.2**

- Added Conexant CX20632 layout-id 28 for HP EliteDesk by Halelluja12
  - Added wake verb for ALC1220 layout-id 34 for MSI P65 Creator / MSI GS65
  - Added Conexant CX20632 layout 23 for HP ProDesk 480 G4 by frankiezd
  - Fix headphone and speaker switch not working for CX8200 HP Probook 440 G5
  - Added ALC1220 layout-id 21 for MSI GE63 Raider RGB 8RF by Andres ZeroCross
  - Added ALC292 layout-id 32 for Lenovo T450s by EchoEsprit
  - Fixed string Platforms97.xml.zlib Realtek ALC256 layout-id 97 by DalianSky
  - Fix ALC700 HeadPhones and SPDIF outputs by osy86
- 

## **Beitrag von „Noir0SX“ vom 31. Oktober 2019, 12:34**

### **v1.4.3**

- Added support for `No-hda-gfx` HDEF property disabling iGPU digital audio
- Added CX8050 layout-id 13 for ASUS S410U/X411U by cowpod
- Fix layout 13 CX8050 microphone after sleep by cowpod
- Added STAC9872AK layout-id 12 for Sony VGN-FZ11MR by ctich
- Added support for intel NUC7 HDMI audio device-id 719d by Sevift
- Update configdata for dell-5488 by daggeryu
- Fixed ALC292 layout-id 55 with linein (dock mic) boost issue by baesar0



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## Beitrag von „Noir0SX“ vom 3. Dezember 2019, 05:27

### v1.4.4

- Added ALC269 layout-id 12 for Asus Vivobook S200CE by chunnann
- Update ALC269 layout-id 19 for Asus Vivobook S300CA by chunnann
- Update ALC230 layout-id 20 to fix sleep after wake by ameenjuz
- Added CX8150 layout-id 22 for ASUS VivoBook S405UA-EB906T by Andres ZeroCross
- Added ALC285 layout-id 31 for Thinkpad X1E 8750H version by Flymin

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## Beitrag von „Noir0SX“ vom 13. Januar 2020, 17:19

### v1.4.5

- Update MuteGPIO and AMP Values ALC255 layout-id 21 by Andres ZeroCross
- Added ALC272 layout-id 21 for Lenovo All In One PC C440 by Andres ZeroCross
- Conflict patches for NUC7 HDMI audio are deleted.
- Added ALC285 layout-id 52 for Thinkpad P52 by liuyishengalan
- Added Intel 400 series controller (Comet Lake) by fewtarius
- Added 4 channel support and fixed mute button to ALC256 layout 97
- Added ALC1220 layout-id 99 for MiBook 2019 by Dynamix1997
- Added ALC262 layout-id 66 for MS-7847 by Dynamix1997
- Added ALC269VC layout-id 47 for Hasee K790s by Dynamix1997

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## Beitrag von „Noir0SX“ vom 3. Februar 2020, 15:30

## **v1.4.6**

- Add missing pinconfig ALC235 layout-id 16
  - Fixed speaker/headphone priority ALC700 layout-id 11
  - 300 Series PCH HD Audio is native in 10.14+
  - Added ALC215 layout-id 18 for HP 830 G6 by 965987400abc
  - Added TCSEL change to TC0 for Intel codecs
- 

## **Beitrag von „Noir0SX“ vom 2. März 2020, 18:17**

### **v1.4.7**

- Added support for Intel C620 series PCH Audio
  - Fixed injected MaximumBootBeepVolume
  - Added ALC256 layout-id 23 by Andres ZeroCross for Razer Blade 15 RZ09-02705E75
  - Added mute button to ALC230 layout 20
  - Added ALC295 layout-id 23 for HP OMEN 15-AX000 by Lancet-z
  - Added ALC256 layout-id 16 for Dell 7000 Series with 2.1Ch by vicjl
  - Added ALC294 layout-id 66 for ASUS X542UQR by KKKIIINNN
  - Added ALC236 layout-id 12 for Lenovo Xiaoxin Air 14IKBR by AlexanderLake
  - Added ALC292 layout-id 15 for LENOVO THINKPAD T450\_T450s\_X240 - Manual by ModeMacPeet
  - Added ALC1220 layout-id 30 for Z370 AORUS Gaming 7 - Output SP/HP SwitchMode by MacPeet
  - Added ALC294 layout-id 28 for Asus ROG G531GD by ayatkyo
  - Added ALC255 layout-id 71 for Acer Aspire A515-51(G) by DoctorStrange96
  - Added ALC235 layout-id 17 for Lenovo ThinkCentre Tiny M720q by marianvlaza
- 

## **Beitrag von „Noir0SX“ vom 6. April 2020, 15:25**

### **v1.4.8**

- MaxKernel HS for GM/GP
- Support startup delay for AppleHDAController via `alc-delay` property or `alcdelay boot-arg` (in ms)
- Guarded TCSEL change to TC0 with `alctsel=<01 00 00 00>` property or `alctsel=1 boot-arg`

- Improved performance with Lilu 1.4.3 APIs
  - Added ALC257 layout-id 99 and 100 for Lenovo XiaoXin Pro 2019 by DalianSky
  - Added ALC283 layout-id 88 for DELL R14 3437 by Zoran
  - Add mute button to ALC230 layout 13 by Ab2774
  - Update for Better Input Range ALC 235 by Andres ZeroCross
  - Added ALC269VC layout-id 22 for Acer Veriton Z4640G by Andres ZeroCross
  - Updated ConfigData & Added WakeConfigData to fix CodecCommander dependency CX20751/2 layout-id 28 LineIn Sniki
  - Updated ConfigData & Updated WakeConfigData to fix CodecCommander dependency ALC221 layout-id 11 LineIn(s) by Sniki
  - Added ALC255/ALC3234 layout-id 7 for Dell 7348 by armenio
  - Fix Conexant CX8050 LineIn for headsets with combo jack
- 

## **Beitrag von „Noir0SX“ vom 4. Mai 2020, 15:42**

### **v1.4.9**

- Added IDT92HD73E1X5 layout-id 15 for HP Envy h8 1425eg by MacPeet
  - Fix Headphone NodeID ALC269VC layout-id 22 Veritron Z4640G by Andres ZeroCross
  - Added ALC255 layout-id 29 for Acer Predator G3-571 by dhinakg
  - Added ALC256 layout-id 17 for Magicbook with 4CH by hjmmc
  - Updated ConfigData & Added WakeConfigData for ALC295 layout-id 14 by hieplpvip
  - Added ALC671 layout-id 88 for HP 280 Pro G4 by lcp6668
  - Added ALC294 layout-id 22 for ASUS ROG GL504GW by cowpod
  - Added ALC892 layout-id 22 for ASRock Z390m-ITX/ac by imEgo
  - Added wakeconfigdata for ALC230 layout-id 20 by ameenjuz
  - Added ALC235 layout-id 24 for ASUS TUF FX705GM by therealgudv1n
  - Added ALC892 layout-id 20 for GIGABYTE Z390M GAMING by bokeylee
  - Added ALC298 layout-id 16 for Dell Precision 5520 by Pingren
  - Added ALC269 layout-id 77 for Thunderobot-G7000S by Phoenix-Liang
  - Rename 400 series LP controller, add 400 series PCH-H controller
- 

## **Beitrag von „Noir0SX“ vom 1. Juni 2020, 16:35**

### **v1.5.0**

- Update ALC283 layout-id 88 by xiaoleGun

- Fixed accidental reading of alc-layout-id on non-Apple firmwares
  - Add patch to fix internal mic gain adjustment Conexant CX8050
  - Move ALC255 layout-id 7 to layout-id 86
  - Added ALC257 layout-id 86 for Lenovo T480 by armenio
  - Fixed can't activate mute problem Conexant CX8070 layout-id 15 by lietxia
  - Added ALC255 layout-id 20 for DELL 7447 by was3912734. Add Subwoofer drive.
  - Added ALC662 layout-id 18 for MP67-DI/ESPRIMO Q900 by ryahpalma
  - Added ALC256 layout-id 19 for Matebook X Pro 2019 by Durian-Life
  - Added ALC256 layout-id 76 (4CH) for Matebook X Pro 2019 by Durian-Life
- 

## Beitrag von „Noir0SX“ vom 3. August 2020, 17:16

### v1.5.1

- Set MinKernel Catalina for 400 Series
  - Added constants for 11.0 support
  - Added 400 series 0x6c8 and 0x2c8 controller patch (thanks [@lvs1974](#))
  - Added ALC295 layout-id 24 for HP Pavilion / OMEN-2 by zty199
  - Update CA0132 layout-id 7, 4, 2, 1 by wern-apfel
  - Added IDT92HD95 layout-id 11 by wern-apfel
  - Added Icelake Smart Sound Technology Audio Controller
  - Fix Headphone NodeID Add SPDIFOut NodeID ALC255 layout-id 20 for DELL 7447 by was3912734
  - Added ALC290 layout-id 15 for HP m6 n015dx by MacPeet
  - Added ALC285 layout-61 for Lenovo Yoga C740 by fewtarius
  - Added CA0132 LayoutID 99 - 5.1 channel for Alienware-M17X-R4 by DalianSky
  - Added ALC289 layout-id 11 for alienware m17r2 by leeoem
- 

## Beitrag von „Raptortosh“ vom 9. April 2021, 10:12

### v1.5.9

- Added CS4206 layout-id 24 and 60
- Added 500 Series (0xF0C8 Z590 + Intel 10 Gen) PCH HD Audio Controller
- Added 500 Series (0x43C8 Z590 + Intel 11 Gen) PCH HD Audio Controller
- Added ALC289 layout-id 87 for Alienware m15 by GitNaufal

- Added ALC289 layout-id 15 for Dell 7730 Precision CM240 by MacPeet
  - Added ALC897 layout-id 69 for MSI-Z490-A Pro by mathcampbell
  - Added IDT 92HD95 layout-id 14 for LenovoG710 by Svilen88
  - Added ALC235 layout-id 18 for asrock 310 bb by viorel78
  - Added controller patch for 100 Series (8086:A170) by dhinakg
- 

## Beitrag von „Raptortosh“ vom 7. Juni 2021, 18:04

### v1.6.1

- Fixed broken data in CS4206's layout76.xml
- Added PathMapID 4206 and 8800 for ALC885's Layout 67 and 73
- Fixed broken data in ALC289's layout87.xml
- Fixed automatic resource formatting on build
- Fixed ALC885's Info.plist Platforms entry
- Added 400 Series (0xF1C8 Z490 + Intel 11 Gen) PCH HD Audio Controller
- Fixed `alc-verb` device indexing giving varying results over reboots
- Added device listing with indices via `-L/-l` in `alc-verb`
- Added AppleALCU kext variant for digital-only audio setup
- Disabled kext patching for verb support and delays when not requested
- Fixed replace count in `whiskeyLake` HDA patches
- Separated Intel `whiskeyLake` laptop and desktop patches
- Added ALC1220 layout-id 35 for MSI GP75 9SD by Win7GM
- Added ALC1200 (display as ALCS1200A) layout-id 69 for Asrock Z490M ITX/AC by Lorys89 & Vorshim92
- Added ALC293 layout-id 30 for HASEE ZX8-CT5DA by RushiaBoingBoing
- Added ALC255 layout-id 96 for dell 5559 by Bhavin
- Fix mute on Conexant CX 20724 by Human7900
- Added ALC1220 layout-id 17 for Gigabyte Z490 Vision G manual SP/HP by NIBLIZE
- Added ALC255 layout-id 82 for minisforum U820 by daliansky
- Added ALC282 layout-id 21 for TinyMonster ECO by DalianSky