

HD-Audio Codec-Specific Models

ALC880

- 3stack
 - 3-jack in back and a headphone out
- 3stack-digout
 - 3-jack in back, a HP out and a SPDIF out
- 5stack
 - 5-jack in back, 2-jack in front
- 5stack-digout
 - 5-jack in back, 2-jack in front, a SPDIF out
- 6stack
 - 6-jack in back, 2-jack in front
- 6stack-digout
 - 6-jack with a SPDIF out
- 6stack-automute
 - 6-jack with headphone jack detection

ALC260

- gpio1
 - Enable GPIO1
- coef
 - Enable EAPD via COEF table
- fujitsu
 - Quirk for FSC S7020
- fujitsu-jwse
 - Quirk for FSC S7020 with jack modes and HP mic support

ALC262

- inv-dmic
 - Inverted internal mic workaround
- fsc-h270
 - Fixups for Fujitsu-Siemens Celsius H270
- fsc-s7110
 - Fixups for Fujitsu-Siemens Lifebook S7110
- hp-z200
 - Fixups for HP Z200
- tyan
 - Fixups for Tyan Thunder n6650W
- lenovo-3000
 - Fixups for Lenovo 3000
- benq
 - Fixups for Benq ED8
- benq-t31
 - Fixups for Benq T31
- bayleybay
 - Fixups for Intel BayleyBay

ALC267/268

- inv-dmic
 - Inverted internal mic workaround
- hp-eapd
 - Disable HP EAPD on NID 0x15
- spdif
 - Enable SPDIF output on NID 0x1e

ALC22x/23x/25x/269/27x/28x/29x (and vendor-specific ALC3xxx models)

laptop-amic
Laptops with analog-mic input

laptop-dmic
Laptops with digital-mic input

alc269-dmic
Enable ALC269(VA) digital mic workaround

alc271-dmic
Enable ALC271X digital mic workaround

inv-dmic
Inverted internal mic workaround

headset-mic
Indicates a combined headset (headphone+mic) jack

headset-mode
More comprehensive headset support for ALC269 & co

headset-mode-no-hp-mic
Headset mode support without headphone mic

lenovo-dock
Enables docking station I/O for some Lenovos

hp-gpio-led
GPIO LED support on HP laptops

hp-dock-gpio-mic1-led
HP dock with mic LED support

dell-headset-multi
Headset jack, which can also be used as mic-in

dell-headset-dock
Headset jack (without mic-in), and also dock I/O

dell-headset3
Headset jack (without mic-in), and also dock I/O, variant 3

dell-headset4
Headset jack (without mic-in), and also dock I/O, variant 4

alc283-dac-wcaps
Fixups for Chromebook with ALC283

alc283-sense-combo
Combo jack sensing on ALC283

tpt440-dock
Pin configs for Lenovo Thinkpad Dock support

tpt440
Lenovo Thinkpad T440s setup

tpt460
Lenovo Thinkpad T460/560 setup

tpt470-dock
Lenovo Thinkpad T470 dock setup

dual-codecs
Lenovo laptops with dual codecs

alc700-ref
Intel reference board with ALC700 codec

vaio
Pin fixups for Sony VAIO laptops

dell-m101z
COEF setup for Dell M101z

asus-g73jw
Subwoofer pin fixup for ASUS G73JW

lenovo-eapd
Inversed EAPD setup for Lenovo laptops

sony-hweq
H/W EQ COEF setup for Sony laptops

pcm44k
Fixed PCM 44kHz constraints (for buggy devices)

lifebook
Dock pin fixups for Fujitsu Lifebook

lifebook-extmic
Headset mic fixup for Fujitsu Lifebook

lifebook-hp-pin
Headphone pin fixup for Fujitsu Lifebook

lifebook-u7x7

Lifebook U7x7 fixups
alc269vb-amic
ALC269VB analog mic pin fixups
alc269vb-dmic
ALC269VB digital mic pin fixups
hp-mute-led-mic1
Mute LED via Mic1 pin on HP
hp-mute-led-mic2
Mute LED via Mic2 pin on HP
hp-mute-led-mic3
Mute LED via Mic3 pin on HP
hp-gpio-mic1
GPIO + Mic1 pin LED on HP
hp-line1-mic1
Mute LED via Line1 + Mic1 pins on HP
noshutup
Skip shutup callback
sony-nomic
Headset mic fixup for Sony laptops
aspire-headset-mic
Headset pin fixup for Acer Aspire
asus-x101
ASUS X101 fixups
acer-ao7xx
Acer AO7xx fixups
acer-aspire-e1
Acer Aspire E1 fixups
acer-ac700
Acer AC700 fixups
limit-mic-boost
Limit internal mic boost on Lenovo machines
asus-zenbook
ASUS Zenbook fixups
asus-zenbook-ux31a
ASUS Zenbook UX31A fixups
ordissimo
Ordissimo EVE2 (or Malata PC-B1303) fixups
asus-tx300
ASUS TX300 fixups
alc283-int-mic
ALC283 COEF setup for Lenovo machines
mono-speakers
Subwoofer and headset fixups for Dell Inspiron
alc290-subwoofer
Subwoofer fixups for Dell Vostro
thinkpad
Binding with thinkpad_acpi driver for Lenovo machines
dmic-thinkpad
thinkpad_acpi binding + digital mic support
alc255-acer
ALC255 fixups on Acer machines
alc255-asus
ALC255 fixups on ASUS machines
alc255-dell1
ALC255 fixups on Dell machines
alc255-dell2
ALC255 fixups on Dell machines, variant 2
alc293-dell1
ALC293 fixups on Dell machines
alc283-headset
Headset pin fixups on ALC283
aspire-v5
Acer Aspire V5 fixups
hp-gpio4
GPIO and Mic1 pin mute LED fixups for HP

hp-gpio-led
GPIO mute LEDs on HP

hp-gpio2-hotkey
GPIO mute LED with hot key handling on HP

hp-dock-pins
GPIO mute LEDs and dock support on HP

hp-dock-gpio-mic
GPIO, Mic mute LED and dock support on HP

hp-9480m
HP 9480m fixups

alc288-dell1
ALC288 fixups on Dell machines

alc288-dell-xps13
ALC288 fixups on Dell XPS13

dell-e7x
Dell E7x fixups

alc293-dell
ALC293 fixups on Dell machines

alc298-dell1
ALC298 fixups on Dell machines

alc298-dell-aio
ALC298 fixups on Dell AIO machines

alc275-dell-xps
ALC275 fixups on Dell XPS models

lenovo-spk-noise
Workaround for speaker noise on Lenovo machines

lenovo-hotkey
Hot-key support via Mic2 pin on Lenovo machines

dell-spk-noise
Workaround for speaker noise on Dell machines

alc255-dell1
ALC255 fixups on Dell machines

alc295-disable-dac3
Disable DAC3 routing on ALC295

alc280-hp-headset
HP Elitebook fixups

alc221-hp-mic
Front mic pin fixup on HP machines

alc298-spk-volume
Speaker pin routing workaround on ALC298

dell-inspiron-7559
Dell Inspiron 7559 fixups

ativ-book
Samsung Ativ book 8 fixups

alc221-hp-mic
ALC221 headset fixups on HP machines

alc256-asus-mic
ALC256 fixups on ASUS machines

alc256-asus-aio
ALC256 fixups on ASUS AIO machines

alc233-eapd
ALC233 fixups on ASUS machines

alc294-lenovo-mic
ALC294 Mic pin fixup for Lenovo AIO machines

alc225-wyse
Dell Wyse fixups

alc274-dell-aio
ALC274 fixups on Dell AIO machines

alc255-dummy-lineout
Dell Precision 3930 fixups

alc255-dell-headset
Dell Precision 3630 fixups

alc295-hp-x360
HP Spectre X360 fixups

alc-sense-combo

Headset button support for Chrome platform

huawei-mbx-stereo

Enable initialization verbs for Huawei MBX stereo speakers; might be risky, try this at your own risk

alc298-samsung-headphone

Samsung laptops with ALC298

alc256-samsung-headphone

Samsung laptops with ALC256

ALC66x/67x/892

aspire

Subwoofer pin fixup for Aspire laptops

ideapad

Subwoofer pin fixup for Ideapad laptops

mario

Chromebook mario model fixup

hp-rp5800

Headphone pin fixup for HP RP5800

asus-mode1

ASUS

asus-mode2

ASUS

asus-mode3

ASUS

asus-mode4

ASUS

asus-mode5

ASUS

asus-mode6

ASUS

asus-mode7

ASUS

asus-mode8

ASUS

zotac-z68

Front HP fixup for Zotac Z68

inv-dmic

Inverted internal mic workaround

alc662-headset-multi

Dell headset jack, which can also be used as mic-in (ALC662)

dell-headset-multi

Headset jack, which can also be used as mic-in

alc662-headset

Headset mode support on ALC662

alc668-headset

Headset mode support on ALC668

bass16

Bass speaker fixup on pin 0x16

bass1a

Bass speaker fixup on pin 0x1a

automute

Auto-mute fixups for ALC668

dell-xps13

Dell XPS13 fixups

asus-nx50

ASUS Nx50 fixups

asus-nx51

ASUS Nx51 fixups

asus-g751

ASUS G751 fixups

alc891-headset

Headset mode support on ALC891

alc891-headset-multi

Dell headset jack, which can also be used as mic-in (ALC891)

acer-veriton

Acer Veriton speaker pin fixup
asrock-mobo
 Fix invalid 0x15 / 0x16 pins
usi-headset
 Headset support on USI machines
dual-codecs
 Lenovo laptops with dual codecs
alc285-hp-amp-init
 HP laptops which require speaker amplifier initialization (ALC285)

ALC680

N/A

ALC88x/898/1150/1220

abit-aw9d
 Pin fixups for Abit AW9D-MAX
lenovo-y530
 Pin fixups for Lenovo Y530
acer-aspire-7736
 Fixup for Acer Aspire 7736
asus-w90v
 Pin fixup for ASUS W90V
cd
 Enable audio CD pin NID 0x1c
no-front-hp
 Disable front HP pin NID 0x1b
vaio-tt
 Pin fixup for VAIO TT
eee1601
 COEF setups for ASUS Eee 1601
alc882-eapd
 Change EAPD COEF mode on ALC882
alc883-eapd
 Change EAPD COEF mode on ALC883
gpio1
 Enable GPIO1
gpio2
 Enable GPIO2
gpio3
 Enable GPIO3
alc889-coef
 Setup ALC889 COEF
asus-w2jc
 Fixups for ASUS W2JC
acer-aspire-4930g
 Acer Aspire 4930G/5930G/6530G/6930G/7730G
acer-aspire-8930g
 Acer Aspire 8330G/6935G
acer-aspire
 Acer Aspire others
macpro-gpio
 GPIO setup for Mac Pro
dac-route
 Workaround for DAC routing on Acer Aspire
mbp-vref
 Vref setup for Macbook Pro
imac91-vref
 Vref setup for iMac 9,1
mba11-vref
 Vref setup for MacBook Air 1,1
mba21-vref
 Vref setup for MacBook Air 2,1
mp11-vref

Vref setup for Mac Pro 1,1
mp41-vref Vref setup for Mac Pro 4,1
inv-dmic Inverted internal mic workaround
no-primary-hp VAIO Z/VGC-LN51JGB workaround (for fixed speaker DAC)
asus-bass Bass speaker setup for ASUS ET2700
dual-codecs ALC1220 dual codecs for Gaming mobos
clevo-p950 Fixups for Clevo P950

ALC861/660

N/A

ALC861VD/660VD

N/A

CMI9880

minimal 3-jack in back
min_fp 3-jack in back, 2-jack in front
full 6-jack in back, 2-jack in front
full_dig 6-jack in back, 2-jack in front, SPDIF I/O
allout 5-jack in back, 2-jack in front, SPDIF out
auto auto-config reading BIOS (default)

AD1882 / AD1882A

3stack 3-stack mode
3stack-automute 3-stack with automute front HP (default)
6stack 6-stack mode

AD1884A / AD1883 / AD1984A / AD1984B

desktop 3-stack desktop (default) laptop laptop with HP jack sensing mobile mobile devices with HP jack sensing thinkpad Lenovo Thinkpad X300 touchsmart HP Touchsmart

AD1884

N/A

AD1981

basic 3-jack (default) hp HP nx6320 thinkpad Lenovo Thinkpad T60/X60/Z60 toshiba Toshiba U205

AD1983

N/A

AD1984

basic default configuration thinkpad Lenovo Thinkpad T61/X61 dell_desktop Dell T3400

AD1986A

3stack
 3-stack, shared surrounds
laptop
 2-channel only (FSC V2060, Samsung M50)
laptop-amic
 2-channel with built-in mic
eapd
 Turn on EAPD constantly

AD1988/AD1988B/AD1989A/AD1989B

6stack
 6-jack
6stack-dig
 ditto with SPDIF
3stack
 3-jack
3stack-dig
 ditto with SPDIF
laptop
 3-jack with hp-jack automute
laptop-dig
 ditto with SPDIF
auto
 auto-config reading BIOS (default)

Conexant 5045

cap-mix-amp
 Fix max input level on mixer widget
toshiba-p105
 Toshiba P105 quirk
hp-530
 HP 530 quirk

Conexant 5047

cap-mix-amp
 Fix max input level on mixer widget

Conexant 5051

lenovo-x200
 Lenovo X200 quirk

Conexant 5066

stereo-dmic
 Workaround for inverted stereo digital mic
gpio1
 Enable GPIO1 pin
headphone-mic-pin
 Enable headphone mic NID 0x18 without detection
tp410
 Thinkpad T400 & co quirks
thinkpad
 Thinkpad mute/mic LED quirk
lemote-a1004
 Lemote A1004 quirk
lemote-a1205

Lemote A1205 quirk
olpc-xo OLPC XO quirk
mute-led-eapd Mute LED control via EAPD
hp-dock HP dock support
mute-led-gpio Mute LED control via GPIO
hp-mic-fix Fix for headset mic pin on HP boxes

STAC9200

ref Reference board
oqo OQO Model 2
dell-d21 Dell (unknown)
dell-d22 Dell (unknown)
dell-d23 Dell (unknown)
dell-m21 Dell Inspiron 630m, Dell Inspiron 640m
dell-m22 Dell Latitude D620, Dell Latitude D820
dell-m23 Dell XPS M1710, Dell Precision M90
dell-m24 Dell Latitude 120L
dell-m25 Dell Inspiron E1505n
dell-m26 Dell Inspiron 1501
dell-m27 Dell Inspiron E1705/9400
gateway-m4 Gateway laptops with EAPD control
gateway-m4-2 Gateway laptops with EAPD control
panasonic Panasonic CF-74
auto BIOS setup (default)

STAC9205/9254

ref Reference board
dell-m42 Dell (unknown)
dell-m43 Dell Precision
dell-m44 Dell Inspiron
eapd Keep EAPD on (e.g. Gateway T1616)
auto BIOS setup (default)

STAC9220/9221

ref

	Reference board
3stack	
	D945 3stack
5stack	
	D945 5stack + SPDIF
intel-mac-v1	
	Intel Mac Type 1
intel-mac-v2	
	Intel Mac Type 2
intel-mac-v3	
	Intel Mac Type 3
intel-mac-v4	
	Intel Mac Type 4
intel-mac-v5	
	Intel Mac Type 5
intel-mac-auto	
	Intel Mac (detect type according to subsystem id)
macmini	
	Intel Mac Mini (equivalent with type 3)
macbook	
	Intel Mac Book (eq. type 5)
macbook-pro-v1	
	Intel Mac Book Pro 1st generation (eq. type 3)
macbook-pro	
	Intel Mac Book Pro 2nd generation (eq. type 3)
imac-intel	
	Intel iMac (eq. type 2)
imac-intel-20	
	Intel iMac (newer version) (eq. type 3)
ecs202	
	ECS/PC chips
dell-d81	
	Dell (unknown)
dell-d82	
	Dell (unknown)
dell-m81	
	Dell (unknown)
dell-m82	
	Dell XPS M1210
auto	
	BIOS setup (default)

STAC9202/9250/9251

ref	Reference board, base config
ml	Some Gateway MX series laptops (NX560XL)
ml-2	Some Gateway MX series laptops (MX6453)
m2	Some Gateway MX series laptops (M255)
m2-2	Some Gateway MX series laptops
m3	Some Gateway MX series laptops
m5	Some Gateway MX series laptops (MP6954)
m6	Some Gateway NX series laptops
auto	BIOS setup (default)

STAC9227/9228/9229/927x

ref
Reference board

ref-no-jd
Reference board without HP/Mic jack detection

3stack
D965 3stack

5stack
D965 5stack + SPDIF

5stack-no-fp
D965 5stack without front panel

dell-3stack
Dell Dimension E520

dell-bios
Fixes with Dell BIOS setup

dell-bios-amic
Fixes with Dell BIOS setup including analog mic

volknob
Fixes with volume-knob widget 0x24

auto
BIOS setup (default)

STAC92HD71B*

ref
Reference board

dell-m4-1
Dell desktops

dell-m4-2
Dell desktops

dell-m4-3
Dell desktops

hp-m4
HP mini 1000

hp-dv5
HP dv series

hp-hdx
HP HDX series

hp-dv4-1222nr
HP dv4-1222nr (with LED support)

auto
BIOS setup (default)

STAC92HD73*

ref
Reference board

no-jd
BIOS setup but without jack-detection

intel
Intel DG45* mobos

dell-m6-amic
Dell desktops/laptops with analog mics

dell-m6-dmic
Dell desktops/laptops with digital mics

dell-m6
Dell desktops/laptops with both type of mics

dell-eq
Dell desktops/laptops

alienware
Alienware M17x

asus-mobo
Pin configs for ASUS mobo with 5.1/SPDIF out

auto
BIOS setup (default)

STAC92HD83*

ref	Reference board
mic-ref	Reference board with power management for ports
dell-s14	Dell laptop
dell-vostro-3500	Dell Vostro 3500 laptop
hp-dv7-4000	HP dv-7 4000
hp_cNB11_intquad	HP CNB models with 4 speakers
hp-zephyr	HP Zephyr
hp-led	HP with broken BIOS for mute LED
hp-inv-led	HP with broken BIOS for inverted mute LED
hp-mic-led	HP with mic-mute LED
headset-jack	Dell Latitude with a 4-pin headset jack
hp-envy-bass	Pin fixup for HP Envy bass speaker (NID 0x0f)
hp-envy-ts-bass	Pin fixup for HP Envy TS bass speaker (NID 0x10)
hp-bnb13-eq	Hardware equalizer setup for HP laptops
hp-envy-ts-bass	HP Envy TS bass support
auto	BIOS setup (default)

STAC92HD95

hp-led	LED support for HP laptops
hp-bass	Bass HPF setup for HP Spectre 13

STAC9872

vaio	VAIO laptop without SPDIF
auto	BIOS setup (default)

Cirrus Logic CS4206/4207

mbp53	MacBook Pro 5,3
mbp55	MacBook Pro 5,5
imac27	iMac 27 Inch
imac27_122	iMac 12,2
apple	Generic Apple quirk
mbp101	MacBookPro 10,1
mbp81	

MacBookPro 8,1
mba42 MacBookAir 4,2
auto BIOS setup (default)

Cirrus Logic CS4208

mba6 MacBook Air 6,1 and 6,2
gpio0 Enable GPIO 0 amp
mbp11 MacBookPro 11,2
macmini MacMini 7,1
auto BIOS setup (default)

VIA VT17xx/VT18xx/VT20xx

auto BIOS setup (default)