

```
dmesg | grep hdaudio
```

```
liska@liska-HP-Compaq-dc7600-Small-Form-Factor:~$ ^C
liska@liska-HP-Compaq-dc7600-Small-Form-Factor:~$ ^C
liska@liska-HP-Compaq-dc7600-Small-Form-Factor:~$ dmesg | grep hdaudio
[ 22.951294] snd_hda_codec_realtek hdaudioC0D0: autoconfig for ALC260: line_outs=1
(0x15/0x0/0x0/0x0/0x0) type:line
[ 22.951307] snd_hda_codec_realtek hdaudioC0D0: speaker_outs=1 (0x11/0x0/0x0/0x0/0x0)
[ 22.951315] snd_hda_codec_realtek hdaudioC0D0: hp_outs=1 (0x10/0x0/0x0/0x0/0x0)
[ 22.951321] snd_hda_codec_realtek hdaudioC0D0: mono: mono_out=0x0
[ 22.951327] snd_hda_codec_realtek hdaudioC0D0: inputs:
[ 22.951334] snd_hda_codec_realtek hdaudioC0D0: Mic=0x13
[ 22.951341] snd_hda_codec_realtek hdaudioC0D0: Line=0x14
[ 22.951348] snd_hda_codec_realtek hdaudioC0D0: Aux=0xf
```

```
liska@liska-HP-Compaq-dc7600-Small-Form-Factor:~$ cat /proc/asound/card0/codec\#*
Codec: Realtek ALC260
Address: 0
AFG Function Id: 0x1 (unsol 1)
Vendor Id: 0x10ec0260
Subsystem Id: 0x103c3011
Revision Id: 0x100400
No Modem Function Group found
Default PCM:
  rates [0x560]: 44100 48000 96000 192000
  bits [0xe]: 16 20 24
  formats [0x1]: PCM
Default Amp-In caps: N/A
Default Amp-Out caps: N/A
State of AFG node 0x01:
  Power states: D0 D1 D2 D3
  Power: setting=D0, actual=D0
GPIO: io=4, o=0, i=0, unsolicited=1, wake=0
IO[0]: enable=0, dir=0, wake=0, sticky=0, data=0, unsol=0
IO[1]: enable=0, dir=0, wake=0, sticky=0, data=0, unsol=0
IO[2]: enable=0, dir=0, wake=0, sticky=0, data=0, unsol=0
IO[3]: enable=0, dir=0, wake=0, sticky=0, data=0, unsol=0
Node 0x02 [Audio Output] wcaps 0x11: Stereo
  Device: name="ALC260 Analog", type="Audio", device=0
  Converter: stream=5, channel=0
  PCM:
    rates [0x560]: 44100 48000 96000 192000
    bits [0xe]: 16 20 24
    formats [0x1]: PCM
Node 0x03 [Audio Output] wcaps 0x211: Stereo Digital
  Converter: stream=0, channel=0
  Digital:
  Digital category: 0x0
  IEC Coding Type: 0x0
  PCM:
    rates [0x560]: 44100 48000 96000 192000
```

bits [0x1e]: 16 20 24 32  
formats [0x1]: PCM  
Node 0x04 [Audio Input] wcaps 0x10011b: Stereo Amp-In  
Control: name="Capture Volume", index=0, device=0  
ControlAmp: chs=3, dir=In, idx=0, ofs=0  
Control: name="Capture Switch", index=0, device=0  
ControlAmp: chs=3, dir=In, idx=0, ofs=0  
Device: name="ALC260 Analog", type="Audio", device=0  
Amp-In caps: ofs=0x00, nsteps=0x23, stepsize=0x03, mute=1  
Amp-In vals: [0x20 0x20]  
Converter: stream=1, channel=0  
SDI-Select: 0  
PCM:  
rates [0x160]: 44100 48000 96000  
bits [0x6]: 16 20  
formats [0x1]: PCM  
Connection: 7  
0x12 0x13\* 0x14 0x15 0x16 0x0f 0x10  
Node 0x05 [Audio Input] wcaps 0x10011b: Stereo Amp-In  
Control: name="Capture Volume", index=1, device=0  
ControlAmp: chs=3, dir=In, idx=0, ofs=0  
Control: name="Capture Switch", index=1, device=0  
ControlAmp: chs=3, dir=In, idx=0, ofs=0  
Device: name="ALC260 Alt Analog", type="Audio", device=2  
Amp-In caps: ofs=0x00, nsteps=0x23, stepsize=0x03, mute=1  
Amp-In vals: [0x80 0x80]  
Converter: stream=0, channel=0  
SDI-Select: 0  
PCM:  
rates [0x160]: 44100 48000 96000  
bits [0x6]: 16 20  
formats [0x1]: PCM  
Connection: 8  
0x12 0x13\* 0x14 0x15 0x16 0x07 0x0f 0x10  
Node 0x06 [Audio Input] wcaps 0x100391: Stereo Digital  
Converter: stream=0, channel=0  
SDI-Select: 0  
Digital:  
Digital category: 0x0  
IEC Coding Type: 0x0  
PCM:  
rates [0x160]: 44100 48000 96000  
bits [0x1e]: 16 20 24 32  
formats [0x1]: PCM  
Unsolicited: tag=00, enabled=0  
Connection: 1  
0x19  
Node 0x07 [Audio Mixer] wcaps 0x20010b: Stereo Amp-In  
Control: name="Mic Playback Volume", index=0, device=0  
ControlAmp: chs=3, dir=In, idx=1, ofs=0  
Control: name="Mic Playback Switch", index=0, device=0  
ControlAmp: chs=3, dir=In, idx=1, ofs=0

Control: name="Line Playback Volume", index=0, device=0  
ControlAmp: chs=3, dir=In, idx=2, ofs=0  
Control: name="Line Playback Switch", index=0, device=0  
ControlAmp: chs=3, dir=In, idx=2, ofs=0  
Control: name="Aux Playback Volume", index=0, device=0  
ControlAmp: chs=3, dir=In, idx=6, ofs=0  
Control: name="Aux Playback Switch", index=0, device=0  
ControlAmp: chs=3, dir=In, idx=6, ofs=0  
Control: name="Beep Playback Volume", index=0, device=0  
ControlAmp: chs=3, dir=In, idx=5, ofs=0  
Control: name="Beep Playback Switch", index=0, device=0  
ControlAmp: chs=3, dir=In, idx=5, ofs=0  
Amp-In caps: ofs=0x23, nsteps=0x41, stepsize=0x03, mute=1  
Amp-In vals: [0x80 0x80] [0xaf 0xaf] [0xc1 0xc1] [0x80 0x80] [0x80 0x80] [0xa0 0xa0] [0x80 0x80] [0x80 0x80]  
Connection: 8  
0x12 0x13 0x14 0x15 0x16 0x17 0x0f 0x10  
Node 0x08 [Audio Mixer] wcaps 0x20010f: Stereo Amp-In Amp-Out  
Control: name="Line Out Playback Volume", index=0, device=0  
ControlAmp: chs=3, dir=Out, idx=0, ofs=0  
Amp-In caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-In vals: [0x00 0x00] [0x00 0x00]  
Amp-Out caps: ofs=0x40, nsteps=0x40, stepsize=0x03, mute=0  
Amp-Out vals: [0x40 0x40]  
Connection: 2  
0x02 0x07  
Node 0x09 [Audio Mixer] wcaps 0x20010f: Stereo Amp-In Amp-Out  
Control: name="Headphone Playback Volume", index=0, device=0  
ControlAmp: chs=3, dir=Out, idx=0, ofs=0  
Amp-In caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-In vals: [0x00 0x00] [0x00 0x00]  
Amp-Out caps: ofs=0x40, nsteps=0x40, stepsize=0x03, mute=0  
Amp-Out vals: [0x00 0x00]  
Connection: 2  
0x02 0x07  
Node 0x0a [Audio Mixer] wcaps 0x20010e: Mono Amp-In Amp-Out  
Control: name="Speaker Playback Volume", index=0, device=0  
ControlAmp: chs=1, dir=Out, idx=0, ofs=0  
Amp-In caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-In vals: [0x00] [0x00]  
Amp-Out caps: ofs=0x23, nsteps=0x41, stepsize=0x03, mute=0  
Amp-Out vals: [0x3e]  
Connection: 2  
0x02 0x07  
Node 0x0b [Audio Selector] wcaps 0x300101: Stereo  
Connection: 2  
0x08\* 0x09  
Node 0x0c [Audio Selector] wcaps 0x300101: Stereo  
Connection: 2  
0x08\* 0x09  
Node 0x0d [Audio Selector] wcaps 0x300101: Stereo  
Connection: 2

0x08\* 0x09  
Node 0x0e [Audio Selector] wcaps 0x300101: Stereo  
Connection: 2  
0x08\* 0x09  
Node 0x0f [Pin Complex] wcaps 0x40018d: Stereo Amp-Out  
Amp-Out caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-Out vals: [0x80 0x80]  
Pincap 0x0001003f: IN OUT HP EAPD Detect Trigger ImpSense  
EAPD 0x2: EAPD  
Pin Default 0x9993e133: [Fixed] Aux at Int ATAPI  
Conn = ATAPI, Color = White  
DefAssociation = 0x3, Sequence = 0x3  
Misc = NO\_PRESENCE  
Pin-ctls: 0x20: IN  
Unsolicited: tag=00, enabled=0  
Connection: 1  
0x08  
Node 0x10 [Pin Complex] wcaps 0x40018d: Stereo Amp-Out  
Control: name="Headphone Playback Switch", index=0, device=0  
ControlAmp: chs=3, dir=Out, idx=0, ofs=0  
Amp-Out caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-Out vals: [0x80 0x80]  
Pincap 0x0001003f: IN OUT HP EAPD Detect Trigger ImpSense  
EAPD 0x2: EAPD  
Pin Default 0x0221101f: [Jack] HP Out at Ext Front  
Conn = 1/8, Color = Black  
DefAssociation = 0x1, Sequence = 0xf  
Pin-ctls: 0xc0: OUT HP  
Unsolicited: tag=01, enabled=1  
Connection: 1  
0x09  
Node 0x11 [Pin Complex] wcaps 0x40010c: Mono Amp-Out  
Control: name="Speaker Playback Switch", index=0, device=0  
ControlAmp: chs=1, dir=Out, idx=0, ofs=0  
Amp-Out caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-Out vals: [0x00]  
Pincap 0x00000010: OUT  
Pin Default 0x9707e120: [Fixed] Line Out at Int Riser  
Conn = Analog, Color = White  
DefAssociation = 0x2, Sequence = 0x0  
Misc = NO\_PRESENCE  
Pin-ctls: 0x40: OUT  
Connection: 1  
0x0a  
Node 0x12 [Pin Complex] wcaps 0x40018d: Stereo Amp-Out  
Amp-Out caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-Out vals: [0x80 0x80]  
Pincap 0x0000133f: IN OUT HP Detect Trigger ImpSense  
Vref caps: HIZ 50 80  
Pin Default 0x411111f0: [N/A] Speaker at Ext Rear  
Conn = 1/8, Color = Black  
DefAssociation = 0xf, Sequence = 0x0

Misc = NO\_PRESENCE  
Pin-ctls: 0x21: IN VREF\_50  
Unsolicited: tag=00, enabled=0  
Connection: 1  
0x0b  
Node 0x13 [Pin Complex] wcaps 0x40018d: Stereo Amp-Out  
Amp-Out caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-Out vals: [0x80 0x80]  
Pincap 0x0000133f: IN OUT HP Detect Trigger ImpSense  
Vref caps: HIZ 50 80  
Pin Default 0x02a11930: [Jack] Mic at Ext Front  
Conn = 1/8, Color = Black  
DefAssociation = 0x3, Sequence = 0x0  
Misc = NO\_PRESENCE  
Pin-ctls: 0x24: IN VREF\_80  
Unsolicited: tag=00, enabled=0  
Connection: 1  
0x0c  
Node 0x14 [Pin Complex] wcaps 0x40018d: Stereo Amp-Out  
Amp-Out caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-Out vals: [0x80 0x80]  
Pincap 0x0000133f: IN OUT HP Detect Trigger ImpSense  
Vref caps: HIZ 50 80  
Pin Default 0x01813c31: [Jack] Line In at Ext Rear  
Conn = 1/8, Color = Blue  
DefAssociation = 0x3, Sequence = 0x1  
Pin-ctls: 0x20: IN VREF\_HIZ  
Unsolicited: tag=04, enabled=1  
Connection: 1  
0x0d  
Node 0x15 [Pin Complex] wcaps 0x40018d: Stereo Amp-Out  
Control: name="Line Out Playback Switch", index=0, device=0  
ControlAmp: chs=3, dir=Out, idx=0, ofs=0  
Amp-Out caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-Out vals: [0x00 0x00]  
Pincap 0x0000133f: IN OUT HP Detect Trigger ImpSense  
Vref caps: HIZ 50 80  
Pin Default 0x01014c10: [Jack] Line Out at Ext Rear  
Conn = 1/8, Color = Green  
DefAssociation = 0x1, Sequence = 0x0  
Pin-ctls: 0xc0: OUT HP VREF\_HIZ  
Unsolicited: tag=02, enabled=1  
Connection: 1  
0x0e  
Node 0x16 [Pin Complex] wcaps 0x400001: Stereo  
Pincap 0x00000020: IN  
Pin Default 0x411111f0: [N/A] Speaker at Ext Rear  
Conn = 1/8, Color = Black  
DefAssociation = 0xf, Sequence = 0x0  
Misc = NO\_PRESENCE  
Pin-ctls: 0x00:  
Node 0x17 [Pin Complex] wcaps 0x400000: Mono

Pincap 0x00000020: IN  
Pin Default 0x411111f0: [N/A] Speaker at Ext Rear  
Conn = 1/8, Color = Black  
DefAssociation = 0xf, Sequence = 0x0  
Misc = NO\_PRESENCE  
Pin-ctls: 0x00:  
Node 0x18 [Pin Complex] wcaps 0x400380: Mono Digital  
Pincap 0x00000014: OUT Detect  
Pin Default 0x411111f0: [N/A] Speaker at Ext Rear  
Conn = 1/8, Color = Black  
DefAssociation = 0xf, Sequence = 0x0  
Misc = NO\_PRESENCE  
Pin-ctls: 0x00:  
Unsolicited: tag=00, enabled=0  
Connection: 1  
0x03  
Node 0x19 [Pin Complex] wcaps 0x400280: Mono Digital  
Pincap 0x00000024: IN Detect  
Pin Default 0x411111f0: [N/A] Speaker at Ext Rear  
Conn = 1/8, Color = Black  
DefAssociation = 0xf, Sequence = 0x0  
Misc = NO\_PRESENCE  
Pin-ctls: 0x00:  
Unsolicited: tag=00, enabled=0  
Node 0x1a [Vendor Defined Widget] wcaps 0xf00040: Mono  
Processing caps: benign=0, ncoeff=13  
Node 0x1b [Volume Knob Widget] wcaps 0x600080: Mono  
Volume-Knob: delta=0, steps=64, direct=0, val=63  
Unsolicited: tag=00, enabled=0  
Connection: 0  
liska@liska-HP-Compaq-dc7600-Small-Form-Factor:~\$  
liska@liska-HP-Compaq-dc7600-Small-Form-Factor:~\$  
liska@liska-HP-Compaq-dc7600-Small-Form-Factor:~\$  
liska@liska-HP-Compaq-dc7600-Small-Form-Factor:~\$  
liska@liska-HP-Compaq-dc7600-Small-Form-Factor:~\$  
liska@liska-HP-Compaq-dc7600-Small-Form-Factor:~\$  
liska@liska-HP-Compaq-dc7600-Small-Form-Factor:~\$  
liska@liska-HP-Compaq-dc7600-Small-Form-Factor:~\$  
liska@liska-HP-Compaq-dc7600-Small-Form-Factor:~\$  
liska@liska-HP-Compaq-dc7600-Small-Form-Factor:~\$  
liska@liska-HP-Compaq-dc7600-Small-Form-Factor:~\$  
liska@liska-HP-Compaq-dc7600-Small-Form-Factor:~\$ amixer -c 0 contents  
numid=25,iface=CARD,name='Aux Phantom Jack'  
; type=BOOLEAN,access=r-----,values=1  
: values=on  
numid=27,iface=CARD,name='Front Headphone Jack'  
; type=BOOLEAN,access=r-----,values=1  
: values=off  
numid=24,iface=CARD,name='Line Jack'  
; type=BOOLEAN,access=r-----,values=1  
: values=off  
numid=26,iface=CARD,name='Line Out Jack'  
; type=BOOLEAN,access=r-----,values=1

```
: values=off
numid=23,iface=CARD,name='Mic Phantom Jack'
; type=BOOLEAN,access=r-----,values=1
: values=on
numid=28,iface=CARD,name='Speaker Phantom Jack'
; type=BOOLEAN,access=r-----,values=1
: values=on
numid=22,iface=MIXER,name='Master Playback Switch'
; type=BOOLEAN,access=rw-----,values=1
: values=on
numid=21,iface=MIXER,name='Master Playback Volume'
; type=INTEGER,access=rw---R--,values=1,min=0,max=64,step=0
: values=64
| dBscale-min=-64.00dB,step=1.00dB,mute=0
numid=4,iface=MIXER,name='Headphone Playback Switch'
; type=BOOLEAN,access=rw-----,values=2
: values=off,off
numid=3,iface=MIXER,name='Headphone Playback Volume'
; type=INTEGER,access=rw---R--,values=2,min=0,max=64,step=0
: values=0,0
| dBscale-min=-64.00dB,step=1.00dB,mute=0
numid=34,iface=MIXER,name='PCM Playback Volume'
; type=INTEGER,access=rw---RW-,values=2,min=0,max=255,step=0
: values=255,255
| dBscale-min=-51.00dB,step=0.20dB,mute=0
numid=2,iface=MIXER,name='Line Out Playback Switch'
; type=BOOLEAN,access=rw-----,values=2
: values=on,on
numid=1,iface=MIXER,name='Line Out Playback Volume'
; type=INTEGER,access=rw---R--,values=2,min=0,max=64,step=0
: values=64,64
| dBscale-min=-64.00dB,step=1.00dB,mute=0
numid=11,iface=MIXER,name='Line Playback Switch'
; type=BOOLEAN,access=rw-----,values=2
: values=off,off
numid=10,iface=MIXER,name='Line Playback Volume'
; type=INTEGER,access=rw---R--,values=2,min=0,max=65,step=0
: values=65,65
| dBscale-min=-35.00dB,step=1.00dB,mute=0
numid=9,iface=MIXER,name='Mic Playback Switch'
; type=BOOLEAN,access=rw-----,values=2
: values=off,off
numid=8,iface=MIXER,name='Mic Playback Volume'
; type=INTEGER,access=rw---R--,values=2,min=0,max=65,step=0
: values=47,47
| dBscale-min=-35.00dB,step=1.00dB,mute=0
numid=13,iface=MIXER,name='Aux Playback Switch'
; type=BOOLEAN,access=rw-----,values=2
: values=off,off
numid=12,iface=MIXER,name='Aux Playback Volume'
; type=INTEGER,access=rw---R--,values=2,min=0,max=65,step=0
: values=0,0
```

```
| dBscale-min=-35.00dB,step=1.00dB,mute=0
numid=18,iface=MIXER,name='Capture Switch'
; type=BOOLEAN,access=rw-----,values=2
: values=on,on
numid=20,iface=MIXER,name='Capture Switch',index=1
; type=BOOLEAN,access=rw-----,values=2
: values=off,off
numid=17,iface=MIXER,name='Capture Volume'
; type=INTEGER,access=rw---R--,values=2,min=0,max=35,step=0
: values=32,32
| dBscale-min=0.00dB,step=1.00dB,mute=0
numid=19,iface=MIXER,name='Capture Volume',index=1
; type=INTEGER,access=rw---R--,values=2,min=0,max=35,step=0
: values=0,0
| dBscale-min=0.00dB,step=1.00dB,mute=0
numid=7,iface=MIXER,name='Loopback Mixing'
; type=ENUMERATED,access=rw-----,values=1,items=2
; Item #0 'Disabled'
; Item #1 'Enabled'
: values=1
numid=14,iface=MIXER,name='Auto-Mute Mode'
; type=ENUMERATED,access=rw-----,values=1,items=3
; Item #0 'Disabled'
; Item #1 'Speaker Only'
; Item #2 'Line Out+Speaker'
: values=2
numid=30,iface=MIXER,name='Beep Playback Switch'
; type=BOOLEAN,access=rw-----,values=2
: values=off,off
numid=29,iface=MIXER,name='Beep Playback Volume'
; type=INTEGER,access=rw---R--,values=2,min=0,max=65,step=0
: values=32,32
| dBscale-min=-35.00dB,step=1.00dB,mute=0
numid=15,iface=MIXER,name='Input Source'
; type=ENUMERATED,access=rw-----,values=1,items=3
; Item #0 'Mic'
; Item #1 'Line'
; Item #2 'Aux'
: values=0
numid=16,iface=MIXER,name='Input Source',index=1
; type=ENUMERATED,access=rw-----,values=1,items=3
; Item #0 'Mic'
; Item #1 'Line'
; Item #2 'Aux'
: values=0
numid=6,iface=MIXER,name='Speaker Playback Switch'
; type=BOOLEAN,access=rw-----,values=1
: values=on
numid=5,iface=MIXER,name='Speaker Playback Volume'
; type=INTEGER,access=rw---R--,values=1,min=0,max=65,step=0
: values=62
| dBscale-min=-35.00dB,step=1.00dB,mute=0
```



```
numid=32,iface=PCM,name='Capture Channel Map'  
; type=INTEGER,access=r---R--,values=2,min=0,max=36,step=0  
: values=0,0  
| container  
| chmap-fixed=FL,FR
```

```
numid=31,iface=PCM,name='Playback Channel Map'  
; type=INTEGER,access=r---R--,values=2,min=0,max=36,step=0  
: values=0,0  
| container  
| chmap-fixed=FL,FR
```

```
numid=33,iface=PCM,name='Capture Channel Map',device=2  
; type=INTEGER,access=r---R--,values=2,min=0,max=36,step=0  
: values=0,0  
| container  
| chmap-fixed=FL,FR
```

```
liska@liska-HP-Compaq-dc7600-Small-Form-Factor:~$ cat /proc/asound/card0/codec\#*  
Codec: Realtek ALC260  
Address: 0  
AFG Function Id: 0x1 (unsol 1)  
Vendor Id: 0x10ec0260  
Subsystem Id: 0x103c3011  
Revision Id: 0x100400  
No Modem Function Group found  
Default PCM:  
  rates [0x560]: 44100 48000 96000 192000  
  bits [0xe]: 16 20 24  
  formats [0x1]: PCM  
Default Amp-In caps: N/A  
Default Amp-Out caps: N/A  
State of AFG node 0x01:  
  Power states: D0 D1 D2 D3  
  Power: setting=D0, actual=D0  
GPIO: io=4, o=0, i=0, unsolicited=1, wake=0  
  IO[0]: enable=0, dir=0, wake=0, sticky=0, data=0, unsol=0  
  IO[1]: enable=0, dir=0, wake=0, sticky=0, data=0, unsol=0  
  IO[2]: enable=0, dir=0, wake=0, sticky=0, data=0, unsol=0  
  IO[3]: enable=0, dir=0, wake=0, sticky=0, data=0, unsol=0  
Node 0x02 [Audio Output] wcaps 0x11: Stereo  
  Device: name="ALC260 Analog", type="Audio", device=0  
  Converter: stream=5, channel=0  
  PCM:  
    rates [0x560]: 44100 48000 96000 192000  
    bits [0xe]: 16 20 24  
    formats [0x1]: PCM  
Node 0x03 [Audio Output] wcaps 0x211: Stereo Digital  
  Converter: stream=0, channel=0
```

Digital:

Digital category: 0x0

IEC Coding Type: 0x0

PCM:

rates [0x560]: 44100 48000 96000 192000

bits [0x1e]: 16 20 24 32

formats [0x1]: PCM

Node 0x04 [Audio Input] wcaps 0x10011b: Stereo Amp-In

Control: name="Capture Volume", index=0, device=0

ControlAmp: chs=3, dir=In, idx=0, ofs=0

Control: name="Capture Switch", index=0, device=0

ControlAmp: chs=3, dir=In, idx=0, ofs=0

Device: name="ALC260 Analog", type="Audio", device=0

Amp-In caps: ofs=0x00, nsteps=0x23, stepsize=0x03, mute=1

Amp-In vals: [0x20 0x20]

Converter: stream=1, channel=0

SDI-Select: 0

PCM:

rates [0x160]: 44100 48000 96000

bits [0x6]: 16 20

formats [0x1]: PCM

Connection: 7

0x12 0x13\* 0x14 0x15 0x16 0x0f 0x10

Node 0x05 [Audio Input] wcaps 0x10011b: Stereo Amp-In

Control: name="Capture Volume", index=1, device=0

ControlAmp: chs=3, dir=In, idx=0, ofs=0

Control: name="Capture Switch", index=1, device=0

ControlAmp: chs=3, dir=In, idx=0, ofs=0

Device: name="ALC260 Alt Analog", type="Audio", device=2

Amp-In caps: ofs=0x00, nsteps=0x23, stepsize=0x03, mute=1

Amp-In vals: [0x80 0x80]

Converter: stream=0, channel=0

SDI-Select: 0

PCM:

rates [0x160]: 44100 48000 96000

bits [0x6]: 16 20

formats [0x1]: PCM

Connection: 8

0x12 0x13\* 0x14 0x15 0x16 0x07 0x0f 0x10

Node 0x06 [Audio Input] wcaps 0x100391: Stereo Digital

Converter: stream=0, channel=0

SDI-Select: 0

Digital:

Digital category: 0x0

IEC Coding Type: 0x0

PCM:

rates [0x160]: 44100 48000 96000

bits [0x1e]: 16 20 24 32

formats [0x1]: PCM

Unsolicited: tag=00, enabled=0

Connection: 1

0x19

Node 0x07 [Audio Mixer] wcaps 0x20010b: Stereo Amp-In  
Control: name="Mic Playback Volume", index=0, device=0  
ControlAmp: chs=3, dir=In, idx=1, ofs=0  
Control: name="Mic Playback Switch", index=0, device=0  
ControlAmp: chs=3, dir=In, idx=1, ofs=0  
Control: name="Line Playback Volume", index=0, device=0  
ControlAmp: chs=3, dir=In, idx=2, ofs=0  
Control: name="Line Playback Switch", index=0, device=0  
ControlAmp: chs=3, dir=In, idx=2, ofs=0  
Control: name="Aux Playback Volume", index=0, device=0  
ControlAmp: chs=3, dir=In, idx=6, ofs=0  
Control: name="Aux Playback Switch", index=0, device=0  
ControlAmp: chs=3, dir=In, idx=6, ofs=0  
Control: name="Beep Playback Volume", index=0, device=0  
ControlAmp: chs=3, dir=In, idx=5, ofs=0  
Control: name="Beep Playback Switch", index=0, device=0  
ControlAmp: chs=3, dir=In, idx=5, ofs=0  
Amp-In caps: ofs=0x23, nsteps=0x41, stepsize=0x03, mute=1  
Amp-In vals: [0x80 0x80] [0xaf 0xaf] [0xc1 0xc1] [0x80 0x80] [0x80 0x80] [0xa0 0xa0] [0x80 0x80] [0x80 0x80]  
Connection: 8  
0x12 0x13 0x14 0x15 0x16 0x17 0x0f 0x10

Node 0x08 [Audio Mixer] wcaps 0x20010f: Stereo Amp-In Amp-Out  
Control: name="Line Out Playback Volume", index=0, device=0  
ControlAmp: chs=3, dir=Out, idx=0, ofs=0  
Amp-In caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-In vals: [0x00 0x00] [0x00 0x00]  
Amp-Out caps: ofs=0x40, nsteps=0x40, stepsize=0x03, mute=0  
Amp-Out vals: [0x40 0x40]  
Connection: 2  
0x02 0x07

Node 0x09 [Audio Mixer] wcaps 0x20010f: Stereo Amp-In Amp-Out  
Control: name="Headphone Playback Volume", index=0, device=0  
ControlAmp: chs=3, dir=Out, idx=0, ofs=0  
Amp-In caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-In vals: [0x00 0x00] [0x00 0x00]  
Amp-Out caps: ofs=0x40, nsteps=0x40, stepsize=0x03, mute=0  
Amp-Out vals: [0x00 0x00]  
Connection: 2  
0x02 0x07

Node 0x0a [Audio Mixer] wcaps 0x20010e: Mono Amp-In Amp-Out  
Control: name="Speaker Playback Volume", index=0, device=0  
ControlAmp: chs=1, dir=Out, idx=0, ofs=0  
Amp-In caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-In vals: [0x00] [0x00]  
Amp-Out caps: ofs=0x23, nsteps=0x41, stepsize=0x03, mute=0  
Amp-Out vals: [0x3e]  
Connection: 2  
0x02 0x07

Node 0x0b [Audio Selector] wcaps 0x300101: Stereo  
Connection: 2  
0x08\* 0x09

Node 0x0c [Audio Selector] wcaps 0x300101: Stereo  
Connection: 2  
0x08\* 0x09

Node 0x0d [Audio Selector] wcaps 0x300101: Stereo  
Connection: 2  
0x08\* 0x09

Node 0x0e [Audio Selector] wcaps 0x300101: Stereo  
Connection: 2  
0x08\* 0x09

Node 0x0f [Pin Complex] wcaps 0x40018d: Stereo Amp-Out  
Amp-Out caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-Out vals: [0x80 0x80]  
Pincap 0x0001003f: IN OUT HP EAPD Detect Trigger ImpSense  
EAPD 0x2: EAPD  
Pin Default 0x9993e133: [Fixed] Aux at Int ATAPI  
Conn = ATAPI, Color = White  
DefAssociation = 0x3, Sequence = 0x3  
Misc = NO\_PRESENCE  
Pin-ctls: 0x20: IN  
Unsolicited: tag=00, enabled=0  
Connection: 1  
0x08

Node 0x10 [Pin Complex] wcaps 0x40018d: Stereo Amp-Out  
Control: name="Headphone Playback Switch", index=0, device=0  
ControlAmp: chs=3, dir=Out, idx=0, ofs=0  
Amp-Out caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-Out vals: [0x80 0x80]  
Pincap 0x0001003f: IN OUT HP EAPD Detect Trigger ImpSense  
EAPD 0x2: EAPD  
Pin Default 0x0221101f: [Jack] HP Out at Ext Front  
Conn = 1/8, Color = Black  
DefAssociation = 0x1, Sequence = 0xf  
Pin-ctls: 0xc0: OUT HP  
Unsolicited: tag=01, enabled=1  
Connection: 1  
0x09

Node 0x11 [Pin Complex] wcaps 0x40010c: Mono Amp-Out  
Control: name="Speaker Playback Switch", index=0, device=0  
ControlAmp: chs=1, dir=Out, idx=0, ofs=0  
Amp-Out caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-Out vals: [0x00]  
Pincap 0x00000010: OUT  
Pin Default 0x9707e120: [Fixed] Line Out at Int Riser  
Conn = Analog, Color = White  
DefAssociation = 0x2, Sequence = 0x0  
Misc = NO\_PRESENCE  
Pin-ctls: 0x40: OUT  
Connection: 1  
0x0a

Node 0x12 [Pin Complex] wcaps 0x40018d: Stereo Amp-Out  
Amp-Out caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-Out vals: [0x80 0x80]

Pincap 0x0000133f: IN OUT HP Detect Trigger ImpSense  
Vref caps: HIZ 50 80  
Pin Default 0x411111f0: [N/A] Speaker at Ext Rear  
Conn = 1/8, Color = Black  
DefAssociation = 0xf, Sequence = 0x0  
Misc = NO\_PRESENCE  
Pin-ctls: 0x21: IN VREF\_50  
Unsolicited: tag=00, enabled=0  
Connection: 1  
0x0b

Node 0x13 [Pin Complex] wcaps 0x40018d: Stereo Amp-Out  
Amp-Out caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-Out vals: [0x80 0x80]  
Pincap 0x0000133f: IN OUT HP Detect Trigger ImpSense  
Vref caps: HIZ 50 80  
Pin Default 0x02a11930: [Jack] Mic at Ext Front  
Conn = 1/8, Color = Black  
DefAssociation = 0x3, Sequence = 0x0  
Misc = NO\_PRESENCE  
Pin-ctls: 0x24: IN VREF\_80  
Unsolicited: tag=00, enabled=0  
Connection: 1  
0x0c

Node 0x14 [Pin Complex] wcaps 0x40018d: Stereo Amp-Out  
Amp-Out caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-Out vals: [0x80 0x80]  
Pincap 0x0000133f: IN OUT HP Detect Trigger ImpSense  
Vref caps: HIZ 50 80  
Pin Default 0x01813c31: [Jack] Line In at Ext Rear  
Conn = 1/8, Color = Blue  
DefAssociation = 0x3, Sequence = 0x1  
Pin-ctls: 0x20: IN VREF\_HIZ  
Unsolicited: tag=04, enabled=1  
Connection: 1  
0x0d

Node 0x15 [Pin Complex] wcaps 0x40018d: Stereo Amp-Out  
Control: name="Line Out Playback Switch", index=0, device=0  
ControlAmp: chs=3, dir=Out, idx=0, ofs=0  
Amp-Out caps: ofs=0x00, nsteps=0x00, stepsize=0x00, mute=1  
Amp-Out vals: [0x00 0x00]  
Pincap 0x0000133f: IN OUT HP Detect Trigger ImpSense  
Vref caps: HIZ 50 80  
Pin Default 0x01014c10: [Jack] Line Out at Ext Rear  
Conn = 1/8, Color = Green  
DefAssociation = 0x1, Sequence = 0x0  
Pin-ctls: 0xc0: OUT HP VREF\_HIZ  
Unsolicited: tag=02, enabled=1  
Connection: 1  
0x0e

Node 0x16 [Pin Complex] wcaps 0x400001: Stereo  
Pincap 0x00000020: IN  
Pin Default 0x411111f0: [N/A] Speaker at Ext Rear

Conn = 1/8, Color = Black  
DefAssociation = 0xf, Sequence = 0x0  
Misc = NO\_PRESENCE  
Pin-ctls: 0x00:  
Node 0x17 [Pin Complex] wcaps 0x400000: Mono  
Pincap 0x00000020: IN  
Pin Default 0x411111f0: [N/A] Speaker at Ext Rear  
Conn = 1/8, Color = Black  
DefAssociation = 0xf, Sequence = 0x0  
Misc = NO\_PRESENCE  
Pin-ctls: 0x00:  
Node 0x18 [Pin Complex] wcaps 0x400380: Mono Digital  
Pincap 0x00000014: OUT Detect  
Pin Default 0x411111f0: [N/A] Speaker at Ext Rear  
Conn = 1/8, Color = Black  
DefAssociation = 0xf, Sequence = 0x0  
Misc = NO\_PRESENCE  
Pin-ctls: 0x00:  
Unsolicited: tag=00, enabled=0  
Connection: 1  
0x03  
Node 0x19 [Pin Complex] wcaps 0x400280: Mono Digital  
Pincap 0x00000024: IN Detect  
Pin Default 0x411111f0: [N/A] Speaker at Ext Rear  
Conn = 1/8, Color = Black  
DefAssociation = 0xf, Sequence = 0x0  
Misc = NO\_PRESENCE  
Pin-ctls: 0x00:  
Unsolicited: tag=00, enabled=0  
Node 0x1a [Vendor Defined Widget] wcaps 0xf00040: Mono  
Processing caps: benign=0, ncoeff=13  
Node 0x1b [Volume Knob Widget] wcaps 0x600080: Mono  
Volume-Knob: delta=0, steps=64, direct=0, val=63  
Unsolicited: tag=00, enabled=0  
Connection: 0  
liska@liska-HP-Compaq-dc7600-Small-Form-Factor:~\$

