

Supported codecs

Andrey1970 edited this page on Feb 5 - 337 revisions

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Currently supported codecs 2024-02-05 v1.8.9

Vendor	Codec	Revisions and layouts	MinKernel	MaxKernel
AnalogDevices	AD1884	layout 11	9 (10.5)	—
AnalogDevices	AD1984	0x100400, layout 11	13 (10.9)	—
AnalogDevices	AD1984A	0x100400, layout 11, 13, 44	13 (10.9)	—
AnalogDevices	AD1988A	layout 12	13 (10.9)	—
AnalogDevices	AD1988B	layout 5, 7, 12	13 (10.9)	—
AnalogDevices	AD2000B	layout 5, 7	13 (10.9)	—
Realtek	ALC1150	0x100001, layout 1, 2, 3, 5, 7, 99	12 (10.8)	—
Realtek	ALC1220	0x100101, 0x100003, layout 1, 2, 3, 5, 7, 11, 13, 15, 16, 17, 18, 20, 21, 25, 27, 28, 29, 30, 34, 35, 98, 99, 100	12 (10.8)	—
Realtek	ALC215	0x100002, layout 18	13 (10.9)	—
Realtek	ALC221	0x100003, 0x100103, layout 11, 15, 88	12 (10.8)	—
Realtek	ALC222	0x100001, layout 11, 12	12 (10.8)	—
Realtek	ALC225/ALC3253	layout 28, 30, 33, 90	13 (10.9)	—
Realtek	ALC230	layout 13, 20	13 (10.9)	—
Realtek	ALC233/ALC3236	0x100003, layout 3, 4, 5, 13, 21, 27, 28, 29, 32, 33	13 (10.9)	—
Realtek	ALC235	layout 3, 8, 11, 12, 13, 14, 15, 16, 17, 18, 21, 22, 24, 28, 29, 33, 35, 36, 37, 72, 88, 99	13 (10.9)	—
Realtek	ALC236	0x100001, 0x100002, layout 3, 11, 12, 13, 14, 15, 16, 17, 18, 19, 23, 36, 54, 55, 69, 99	13 (10.9)	—
Realtek	ALC245	layout 11, 12, 13	13 (10.9)	—
Realtek	ALC255/ALC3234	layout 3, 11, 12, 13, 15, 17, 18, 20, 21, 22, 23, 27, 28, 29, 30, 31, 37, 66, 69, 71, 80, 82, 86, 96, 99, 100, 255	13 (10.9)	—
Realtek	ALC256/ALC3246	0x100002, layout 5, 11, 12, 13, 14, 16, 17, 19, 20, 21, 22, 23, 24, 28, 33, 38, 56, 57, 66, 67, 68, 69, 70, 76, 77, 88, 95, 97, 99	13 (10.9)	—
Realtek	ALC257	0x100001, layout 11, 18, 86, 96, 97, 99, 100, 101	13 (10.9)	—
Realtek	ALC260	layout 11, 12	13 (10.9)	—
Realtek	ALC262	0x100100, 0x100302, 0x100202, layout 7, 11, 12, 13, 14, 28, 66	12 (10.8)	—
Realtek	ALC268	layout 3, 11	9 (10.5)	—
Realtek	ALC269/ALC271X	0x100203, 0x100004, 0x100202, 0x100100, layout 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36, 38, 39, 40, 44, 45, 47, 55, 58, 66, 69, 76, 77, 88, 91, 93, 99, 100, 111, 127, 128, 138, 188	12 (10.8)	—
Realtek	ALC270	0x100100, layout 3, 4, 21, 27, 28	13 (10.9)	—
Realtek	ALC272	0x100001, 0x100002, layout 3, 12, 18, 21	13 (10.9)	—
Realtek	ALC274	0x100004, layout 21, 28, 35, 39	13 (10.9)	—
Realtek	ALC275	0x100008, 0x100005, layout 3, 13, 28	13 (10.9)	—
Realtek	ALC280	layout 3, 4, 11, 13, 15, 16, 17, 18, 21	13 (10.9)	—
Realtek	ALC282	0x100003, layout 3, 4, 13, 21, 22, 27, 28, 29, 30, 41, 43, 51, 69, 76, 86, 127	12 (10.8)	—
Realtek	ALC283	layout 1, 3, 11, 12, 13, 15, 44, 45, 66, 73, 88	13 (10.9)	—
Realtek	ALC284	layout 3	13 (10.9)	—
Realtek	ALC285	layout 11, 21, 31, 52, 61, 66, 71, 88	13 (10.9)	—
Realtek	ALC286	0x100002, 0x100003, layout 3, 11, 69	13 (10.9)	—
Realtek	ALC287	layout 11, 13, 21	13 (10.9)	—
Realtek	ALC288	layout 3, 13, 23	13 (10.9)	—
Realtek	ALC289	layout 11, 12, 13, 15, 23, 33, 69, 87, 93, 99	13 (10.9)	—
Realtek	ALC290/ALC3241	layout 3, 4, 10, 15, 28	13 (10.9)	—
Realtek	ALC292	layout 12, 15, 18, 28, 32, 55, 59	13 (10.9)	—
Realtek	ALC293	layout 11, 28, 29, 30, 31	13 (10.9)	—
Realtek	ALC294	layout 11, 12, 13, 15, 21, 22, 28, 44, 66, 99	13 (10.9)	—
Realtek	ALC295	layout 1, 3, 11, 13, 14, 15, 21, 22, 23, 24, 28, 77	13 (10.9)	—
Realtek	ALC298	0x100101, 0x100103, layout 3, 11, 13, 16, 21, 22, 28, 29, 30, 32, 33, 47, 66, 72, 99	13 (10.9)	—
Realtek	ALC299	0x100002, layout 21, 22	13 (10.9)	—
Realtek	ALC623	0x100000, layout 13, 21	13 (10.9)	—
Realtek	ALC662	0x100101, 0x100300, layout 5, 7, 11, 12, 13, 15, 16, 17, 18, 19, 66	13 (10.9)	—
Realtek	ALC663	0x100001, 0x100002, layout 3, 4, 15, 28, 99	13 (10.9)	—
Realtek	ALC665	layout 12, 13	13 (10.9)	—
Realtek	ALC668	0x100003, layout 3, 20, 27, 28, 29	13 (10.9)	—
Realtek	ALC670	0x100002, layout 12	13 (10.9)	—
Realtek	ALC671	layout 12, 15, 16, 88	13 (10.9)	—
Realtek	ALC700	layout 11	13 (10.9)	—
Realtek	ALC882	layout 5, 7	13 (10.9)	—
Realtek	ALC883	0x100002, layout 7, 20	13 (10.9)	—
Realtek	ALC885	0x100101, 0x100103, layout 1, 12, 13, 15, 48, 50, 53, 56, 58, 60, 62, 63, 64, 65, 67, 70, 73, 74	13 (10.9)	—
Realtek	ALC887	0x100202, 0x100302, layout 1, 2, 3, 5, 7, 11, 12, 13, 17, 18, 20, 33, 40, 50, 52, 53, 87, 99	13 (10.9)	—
Realtek	ALC888/ALC1200	0x100001, 0x100101, 0x100202, 0x100302, layout 1, 2, 3, 4, 5, 7, 11, 27, 28, 29	13 (10.9)	—
Realtek	ALC889	0x100004, layout 1, 2, 3, 11, 12	13 (10.9)	—
Realtek	ALC891/ALC867	0x100002, layout 11, 13	12 (10.8)	—
Realtek	ALC892	0x100302, layout 1, 2, 3, 4, 5, 7, 11, 12, 15, 16, 17, 18, 20, 22, 23, 28, 31, 32, 90, 92, 97, 99, 100	13 (10.9)	—
Realtek	ALC897	0x100402, 0x100500, layout 11, 12, 13, 21, 23, 66, 69, 77, 98, 99	13 (10.9)	—
Realtek	ALC898/ALC899	0x100003, layout 1, 2, 3, 5, 7, 11, 13, 65, 66, 98, 99, 101	13 (10.9)	—
Realtek	ALCS1200A	0x100001, layout 1, 2, 3, 7, 11, 49, 50, 51, 52, 69	12 (10.8)	—
Realtek	ALCS1220A	0x100101, 0x100003, layout 1, 2, 3, 5, 7, 8, 11, 13, 15, 20, 21, 99	12 (10.8)	—
Creative	CA0132	0x100918, layout 0, 1, 2, 3, 4, 5, 6, 7, 9, 10, 11, 12, 99	13 (10.9)	—
CirrusLogic	CS4206	0x100103, 0x100301, 0x100302, layout 1, 3, 9, 11, 13, 18, 24, 28, 29, 31, 32, 33, 35, 39, 61, 71, 75, 76, 77, 78, 79, 81, 84, 91, 98, 99	—	—
CirrusLogic	CS4210	0x100101, layout 13	13 (10.9)	—
CirrusLogic	CS4213	0x100100, layout 28	13 (10.9)	—
Conexant	CX20561	0x100000, layout 11	13 (10.9)	—
Conexant	CX20583	layout 3	13 (10.9)	—
Conexant	CX20585	layout 3, 13	13 (10.9)	—
Conexant	CX20588	layout 3	13 (10.9)	—
Conexant	CX20590	0x100000, 0x100002, 0x100003, layout 3, 12, 13, 14, 28	13 (10.9)	—
Conexant	CX20632	0x100100, layout 20, 21, 23, 28	13 (10.9)	—
Conexant	CX20641	layout 11, 13	13 (10.9)	—
Conexant	CX20642	layout 11, 13	13 (10.9)	—
Conexant	CX20722	layout 3	13 (10.9)	—
Conexant	CX20724	layout 3, 13	13 (10.9)	—
Conexant	CX20751/CX20752	0x100100, 0x100001, layout 3, 21, 28, 15	13 (10.9)	—
Conexant	CX20753/CX20754	layout 3, 14, 15, 21	13 (10.9)	—
Conexant	CX20755	layout 3	13 (10.9)	—
Conexant	CX20756	layout 3, 13	13 (10.9)	—
Conexant	CX20757	layout 3, 28	13 (10.9)	—
Conexant	CX8050	layout 3, 13	13 (10.9)	—
Conexant	CX8070/CX11880	layout 15, 21	13 (10.9)	—
Conexant	CX8150	layout 21, 22	13 (10.9)	—
Conexant	CX8200	layout 3, 15, 21, 23, 80	13 (10.9)	—
Conexant	CX8400	layout 12, 13	13 (10.9)	—
IDT	IDT92HD66C3/65	layout 3	13 (10.9)	—
IDT	IDT92HD71B7X	layout 3	13 (10.9)	—
IDT	IDT92HD73C1X5	layout 19, 21	13 (10.9)	—
IDT	IDT92HD73E1X5	layout 15	13 (10.9)	—
IDT	IDT92HD75B2X5	layout 3	13 (10.9)	—
IDT	IDT92HD75B3X5	layout 3	13 (10.9)	—
IDT	IDT92HD81B1C5	layout 3, 11	13 (10.9)	—
IDT	IDT92HD81B1X5	layout 3, 11, 12, 20, 21, 28, 76	13 (10.9)	—
IDT	IDT92HD87B1	layout 3	13 (10.9)	—
IDT	IDT92HD87B1/3	0x100205, layout 12, 13	13 (10.9)	—
IDT	IDT92HD87B2/4	layout 13	13 (10.9)	—
IDT	IDT92HD90BXX	layout 3, 12	13 (10.9)	—
IDT	IDT92HD91BXX	0x100102, 0x100303, layout 3, 12, 13, 33, 84	13 (10.9)	—
IDT	IDT92HD93BXX	0x100203, layout 12	13 (10.9)	—
IDT	IDT92HD95	layout 11, 12, 14	13 (10.9)	—
IDT	IDT92HD98BXX	layout 3	13 (10.9)	—
SigmaTel	STAC9200	0x102201, layout 11	8 (10.4)	—
SigmaTel	STAC9205	0x100204, layout 11	8 (10.4)	—
SigmaTel	STAC9872AK	0x100201, layout 12	12 (10.8)	—
VIA	VT1705	0x100000, layout 21	13 (10.9)	—
VIA	VT1802	0x100000, layout 3, 33, 65	13 (10.9)	—
VIA	VT2020/VT2021	0x100100, layout 5, 7, 9, 13	13 (10.9)	—

Controllers patches

Vendor	Patch for not native	Device	Model	MinKernel	MaxKernel
NVIDIA	NVIDIA HDMI for GK107 in 10.13.4+	0x0E1B	—	17 (10.13)	—
NVIDIA	NVIDIA HDMI for GK208 in 10.13.4+	0x0E0F	—	17 (10.13)	—
NVIDIA	NVIDIA HDMI for GM200 in 10.13.4 - 10.13.6	0x0FB0	—	17 (10.13)	17 (10.13)
NVIDIA	NVIDIA HDMI for GP108 in 10.13.4 - 10.13.6	0x0FB8	—	17 (10.13)	17 (10.13)
NVIDIA	NVIDIA HDMI for GP107 in 10.13.4 - 10.13.6	0x0FB9	—	17 (10.13)	17 (10.13)
NVIDIA	NVIDIA HDMI for GM206 in 10.13.4 - 10.13.6	0x0FBA	—	17 (10.13)	17 (10.13)
NVIDIA	NVIDIA HDMI for GM204 in 10.13.4 - 10.13.6	0x0FBB	—	17 (10.13)	17 (10.13)
NVIDIA	NVIDIA HDMI for GM107 in 10.13.4 - 10.13.6	0x0FBC	—	17 (10.13)	17 (10.13)
NVIDIA	NVIDIA HDMI for GP102 in 10.13.4 - 10.13.6	0x10EF	—	17 (10.13)	17 (10.13)
NVIDIA	NVIDIA HDMI for GP104 in 10.13.4 - 10.13.6	0x10F0	—	17 (10.13)	17 (10.13)
NVIDIA	NVIDIA HDMI for GP106 in 10.13.4 - 10.13.6	0x10F1	—	17 (10.13)	17 (10.13)
AMD	AMD R9 290X HDMI	0xAAC8	—	15 (10.11)	—
AMD	AMD R9 Fury HDMI Audio	0xAAE8	—	15 (10.11)	—
AMD	AMD Vega-M HDMI	0xAB08	—	15 (10.11)	—
AMDZEN	AMD Zen Audio Controller 0x1457	0x1457	—	—	—
AMDZEN	AMD Zen Audio Controller 0x1487	0x1487	—	—	—
AMDZEN	AMD Zen Audio Controller 0x15E3	0x15E3	—	—	—
Intel	HD4600 HDMI Audio	0x0C0C	—	13 (10.9)	—
Intel	Atom Z36xxx/Z37xxx Audio Controller	0x0F04	—	13 (10.9)	—
Intel	Z97 HDEF controller in 10.9	0x8CA0	—	13 (10.9)	13 (10.9)
Intel	X99 HDEF controller 0x8D20	0x8D20	—	13 (10.9)	—
Intel	X99 HDEF controller 0x8D21	0x8D21	—	13 (10.9)	—
Intel	100 Series (0xA170) Mobile PCH HD Audio	0xA170	Laptop	15 (10.11)	—
Intel	WhiskeyLake Mobile PCH HD Audio	0x9DC8	Laptop	16 (10.12)	—
Intel	Intel NUC8 PCH HD Audio	0x9DC8	Desktop	16 (10.12)	—
Intel	200 Series (0xA171) Mobile PCH HD Audio	0xA171	Laptop	15 (10.11)	—
Intel	Intel NUC87HVK 200 Series PCH HD Audio	0xA171	Desktop	16 (10.12)	—
Intel	200 Series PCH HD Audio	0xA2F0	—	16 (10.12)	—
Intel	300 Series PCH HD Audio in 10.12 - 10.13	0xA348	—	16 (10.12)	17 (10.13)
Intel	C620 Series PCH HD Audio	0xA1F0	—	19 (10.15)	—
Intel	400 Series (0xA3F0) PCH HD Audio	0xA3F0	—	19 (10.15)	—
Intel	400 Series PCH HD Audio	0x06C8	—	19 (10.15)	—
Intel	400 Series (0xF1C8) PCH HD Audio	0xF1C8	—	19 (10.15)	—
Intel	400 Series PCH-LP HD Audio	0x02C8	—	19 (10.15)	—
Intel	Icelake Smart Sound Technology Audio Controller	0x34C8	—	19 (10.15)	—
Intel	500 Series (0xF0C8) PCH HD Audio	0xF0C8	—	19 (10.15)	—
Intel	500 Series (0x43C8) PCH HD Audio	0x43C8	—	17 (10.13)	—
Intel	600 Series (0x7AD0) PCH HD Audio	0x7AD0	—	19 (10.15)	—
Intel	Alder Lake PCH-P High Definition Audio Controller (0x51C8)	0x51C8	—	19 (10.15)	—
Intel	700 Series (0x7A50) PCH HD Audio	0x7A50	—	19 (10.15)	—