

# Hitachi / LG Optical Drives Table V1.1 by Blackened2687 & czary2mary

Special thanks to Devilsclaw for his Flasher tool, cvs, jadburner, vroom, zevia, MegaDETH, ~KIPPER~, Sunfish, jcroy and many other members and reviewers from CDFreaks/MyCE, CDRinfo.pl and iXBT for info about drives hardware and firmware dumps

Model	FW	Chipset	Buffer	Interface	Type	Special Features	Clones	Bootcode	Notes	OPU
GMA-4020B	A108	µPD8500S1112 / HD153720RTF / µPD703101AGJ-33	1312 kiB	PATA	DVD-RW			GMA-4020	No DVD+R/RW support	? [Hitachi OPU]
GSA-4040B	A304	HD62604FDV / HD153721TF / µPD703101AGJ-33	2048 kiB	PATA	DVD±RW			GMA-4040		HOP-8511T
GSA-4081B	A106	HD62604AFDV / HD153721TF / µPD703101AGJ-33	2048 kiB	PATA	DVD±RW			GSA-4080		HOP-8521T
GSA-4082B	A208	HD62604AFDV / HD153721TF / µPD703101AGJ-33	2048 kiB	PATA	DVD±RW			GSA-4080		HOP-8521T
GSA-4120B	A115	R8J32005FP / HD153722TF	2048 kiB	PATA	DVD±RW			GSA-4120		HOP-8541T
GSA-4160B	A306	R8J32005FP / HD153722TF	2048 kiB	PATA	DVD±RW			GSA-4160	Mainboard is slightly different from GSA-4120B	HOP-8541T
GWA-4083B	----	MN103S86GSG / AN22112A	2048 kiB	PATA	DVD±RW			N/A	No DVD-RAM support	HOP-7531TS
GWA-4084B	----	MN103S86GSG / AN22112A	2048 kiB	PATA	DVD±RW	LightScribe		N/A	No DVD-RAM support	HOP-7531TS
GWA-4161B	1.01	MN103S86GSG / AN22112A	2048 kiB	PATA	DVD±RW			N/A	No DVD-RAM support	HOP-7531TS
GWA-4162B	----	MN103S86GSG / AN22112A	2048 kiB	PATA	DVD±RW	LightScribe	HP dvd640b	N/A	No DVD-RAM support	HOP-7531TS
GSA-4163B	A106	R8J32006FPV / HD153724TF	2048 kiB	PATA	DVD±RW			GSA-4163		HOP-7532TS
GWA-4164B	1.00	MN103SA6GSJ / AN22113A	2048 kiB	PATA	DVD±RW			N/A	No DVD-RAM support	LPC-812R
GWA-4166B	----	MN103SA6GSJ / AN22113A	2048 kiB	PATA	DVD±RW	LightScribe	HP dvd740b	N/A	No DVD-RAM support	LPC-812R
GSA-4164B	----	MN103SA6GSJ / AN22113A	2048 kiB	PATA	DVD±RW			N/A	No DVD-RAM support	LPC-812R
GSA-4166B	1.02	MN103SA6GSJ / AN22113A	2048 kiB	PATA	DVD±RW	LightScribe	HP dvd840b	N/A		LPC-812R
GSA-4165B	DL05	R8J32007FPV / R2S35002FT	2048 kiB	PATA	DVD±RW			GSA-4165		HOP-7632TS
GSA-4167B	DL13	R8J32007FPV / R2S35002FT	2048 kiB	PATA	DVD±RW			GSA-4165		HOP-7632TS
GSA-H10A	JL05	R8J32018FPV / R2S35004FT	2048 kiB	PATA	DVD±RW			GSA-H10N		HOP-7642TL
GSA-H10N	JL12	R8J32018FPV / R2S35004FT	2048 kiB	PATA	DVD±RW			GSA-H10N		HOP-7642TL
GSA-H10L	LL12	R8J32018FPV / R2S35004FT	2048 kiB	PATA	DVD±RW	LightScribe		GSA-H10N		HOP-7642TL
GSA-H12N	UL02	R8J32018FPV / R2S35004FT	2048 kiB	PATA	DVD±RW			GSA-H10N		HOP-7642TL
GSA-H12L	VL02	R8J32018FPV / R2S35004FT	2048 kiB	PATA	DVD±RW	LightScribe		GSA-H10N		HOP-7642TL
GSA-H20N	1.02	MN103SB4GSA / AN22117A	2048 kiB	PATA	DVD±RW			N/A		LPC-812R
GSA-H20L	1.02	MN103SB4GSA / AN22117A	2048 kiB	PATA	DVD±RW	LightScribe	HP dvd840x	N/A		LPC-812R
GSA-H22N	1.02	MN103SD2GSA / AN22117A	2048 kiB	PATA	DVD±RW			N/A		LPC-812R
GSA-H22L	1.02	MN103SD2GSA / AN22117A	2048 kiB	PATA	DVD±RW	LightScribe		N/A		LPC-812R
GSA-H30N	1.03	MN103SC0GSA / AN22117A	2048 kiB	SATA	DVD±RW			N/A		LPC-812R
GSA-H30L	----	MN103SC0GSA / AN22117A	2048 kiB	SATA	DVD±RW	LightScribe		N/A		LPC-812R
GSA-H42N	RL01	R8J32021HFPV	2048 kiB	PATA	DVD±RW			GSA-H40L		HOP-7652TL
GSA-H44N	RB02	R8J32021HFPV	2048 kiB	PATA	DVD±RW			GSA-H40L		HOP-7652TL
GSA-H42L	SL01	R8J32021HFPV	2048 kiB	PATA	DVD±RW	LightScribe		GSA-H40L		HOP-7652TL
GSA-H44L	SB02	R8J32021HFPV	2048 kiB	PATA	DVD±RW			GSA-H40L		HOP-7652TL
GSA-H62N	CL00	R8J32022HFPV	2048 kiB	SATA	DVD±RW			GSA-H60L		HOP-7652TL
GSA-H66N	CB00	R8J32022HFPV	2048 kiB	SATA	DVD±RW			GSA-H60L		HOP-7652TL
GSA-H62L	DL00	R8J32022HFPV	2048 kiB	SATA	DVD±RW	LightScribe		GSA-H60L		HOP-7652TL
GSA-H50N	1.03	MN103SC7GRT1 / AN22117A	2048 kiB	PATA	DVD±RW			N/A		LPC-815R
GSA-H54N	1.03	MN103SC7GRT1 / AN22117A	2048 kiB	PATA	DVD±RW			N/A		LPC-815R
GSA-H50L	1.03	MN103SC7GRT1 / AN22117A	2048 kiB	PATA	DVD±RW	LightScribe		N/A		LPC-815R
GSA-H54L	1.03	MN103SC7GRT1 / AN22117A	2048 kiB	PATA	DVD±RW			N/A	Mainboard is slightly different from GSA-H50N/H54N	LPC-815R
GSA-H55N	1.06	MN103SC7GRT1 / AN22117A	2048 kiB	PATA	DVD±RW			N/A	Mainboard is slightly different from GSA-H50L/H54L	LPC-815R
GSA-H55L	1.06	MN103SC7GRT1 / AN22117A	2048 kiB	PATA	DVD±RW	LightScribe		N/A		LPC-815R
GSA-H58N	1.03	MN103SC7GRT1 / AN22117A	2048 kiB	PATA	DVD±RW			N/A		HOP-7662TL
GSA-H73N	----	MN103SC8GRT / AN22117A	2048 kiB	SATA	DVD±RW			N/A		LPC-815R
GH20NS10	EL01	R8J32030HFPV	2048 kiB	SATA	DVD±RW			GH12L		HOP-7762TL
GH20NS15	IL00	R8J32030HFPV	2048 kiB	SATA	DVD±RW			GH12L		HOP-7762TL
GH20LS10	FL01	R8J32030HFPV	2048 kiB	SATA	DVD±RW	LightScribe		GH12L		HOP-7762TL
GH20LS15	JL00	R8J32030HFPV	2048 kiB	SATA	DVD±RW			GH12L		HOP-7762TL
GH20NP20	1.00	MN103SD8GRA	2048 kiB	PATA	DVD±RW			N/A		LPC-817A
GH20LP20	1.02	MN103SD8GRA	2048 kiB	PATA	DVD±RW	LightScribe		N/A		LPC-817A
GH22NP20	2.00	MN103SD8GRA	2048 kiB	PATA	DVD±RW		ASUS DRW-22D1S	N/A		LPC-817A
GH22NP21	1.10	MN103SD8GRA	2048 kiB	PATA	DVD±RW			N/A		LPC-817A
GH22LP20	2.00	MN103SD8GRA	2048 kiB	PATA	DVD±RW	LightScribe		N/A		LPC-817A
GH22LP21	1.10	MN103SD8GRA	2048 kiB	PATA	DVD±RW			N/A		LPC-817A
GH22NS30	2.00	MN103SD9GRAB	2048 kiB	SATA	DVD±RW			N/A		LPC-817A
GH22LS30	2.00	MN103SD9GRAB	2048 kiB	SATA	DVD±RW	LightScribe		N/A		LPC-817A
GH22NS40	NL02	R8J32040FPV2	2048 kiB	SATA	DVD±RW			GH42L		HOP-7811TL
GH22LS40	LL02	R8J32040FPV2	2048 kiB	SATA	DVD±RW	LightScribe		GH42L		HOP-7811TL
GH22NS50	TN03	R8J32040FPV2	2048 kiB	SATA	DVD±RW			GH52L		LPC-818R
GH22NS51	CN02	R8J32040FPV2	2048 kiB	SATA	DVD±RW			GH52L		LPC-818R
GH22LS50	TL03	R8J32040FPV2	2048 kiB	SATA	DVD±RW	LightScribe		GH52L		LPC-818R
GH22LS51	CL02	R8J32040FPV2	2048 kiB	SATA	DVD±RW			GH52L		LPC-818R
GH24NS50	XP02	R8J32040FPV2	2048 kiB	SATA	DVD±RW			GH52L		LPC-818R
GH24LS50	YP02	R8J32040FPV2	2048 kiB	SATA	DVD±RW	LightScribe		GH52L		LPC-818R
GH60N	----	R8J32051FPV2	2048 kiB	SATA	DVD±RW			GH62L		HOP-7851L
GH60L	----	R8J32051FPV2	2048 kiB	SATA	DVD±RW	LightScribe		GH62L		HOP-7851L
GH22NS70	EX03	R8J32060FP2	2048 kiB	SATA	DVD±RW			GH72L		LPC-819R
GH22LS70	FX03	R8J32060FP2	2048 kiB	SATA	DVD±RW	LightScribe		GH72L		LPC-819R
GH24NS70	GN03	R8J32060FP2	2048 kiB	SATA	DVD±RW		ASUS DRW-24D1ST	GH72L		LPC-819R
GH24NS71	WN02	R8J32060FP2	2048 kiB	SATA	DVD±RW			GH72L		LPC-819R
GH24NS72	WM02	R8J32060FP2	2048 kiB	SATA	DVD±RW			GH72L		LPC-819R
GH24LS70	GL03	R8J32060FP2	2048 kiB	SATA	DVD±RW	LightScribe		GH72L		LPC-819R

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Model	FW	Chipset	Buffer	Interface	Type	Special Features	Clones	Bootcode	Notes	OPU
GH80N	----	R8J32060FP2	2048 kiB	SATA	DVD±RW			GH82L		HOP-7911L
GH22NS90	HN01	MT1839LN	1536 kiB	SATA	DVD±RW			N/A		LPC-819R
GH24NS90	IN01	MT1839LN	1536 kiB	SATA	DVD±RW		ASUS DRW-24D1ST a	N/A		LPC-819R
GH24NS95	RN01	MT1882N	768 kiB	SATA	DVD±RW		ASUS DRW-24D3ST (1.xx)	N/A		LPC-81AR
GH22NS96	CT01									
GHA2N	----	R8J32060FP2	2048 kiB	SATA	DVD±RW			GHA2L		LPC-81AR
GH24NSB0	LN01	MT1882DN	512 kiB	SATA	DVD±RW		ASUS DRW-24D3ST (2.xx)	N/A		LPC-D711
GH24NSC0	LK00	MT1862N	512 kiB	SATA	DVD±RW		ASUS DRW-24D3ST (3.xx)	N/A		LPC-D721
GH24NSC0	LI00	MT1862AN	512 kiB	SATA	DVD±RW		ASUS DRW-24D5MT	N/A	GH24NSC0 with SVC CODE: NSD0 tag on the label uses hardware identical to GH24NSD0	LPC-D721
GH24NSD0	LH00									
GH24NSD1	LG00									
GBC-H20N	----	R8J32702SFPV / R2A35007FT	4096 kiB	SATA	BD-ROM/DVD±RW			GGC-H20N		HOP-BC30
GBC-H20L	1.80	R8J32702SFPV / R2A35007FT	4096 kiB	SATA	BD-ROM/DVD±RW	LightScribe		GGC-H20N		HOP-BC30
GGC-H20N	1.03	R8J32702SFPV / R2A35007FT	4096 kiB	SATA	HD DVD-ROM/BD-ROM/DVD±RW			GGC-H20N		HOP-BC30
GGC-H20L	1.03	R8J32702SFPV / R2A35007FT	4096 kiB	SATA	HD DVD-ROM/BD-ROM/DVD±RW	LightScribe	Plextor PX-B300SA	GGC-H20N		HOP-BC30
CH08NS10	2.00	R8J32710RFPV / R2A35005FT	4096 kiB	SATA	BD-ROM/DVD±RW			CH08NS10		HOP-B4100
CH08LS10	2.00	R8J32710RFPV / R2A35005FT	4096 kiB	SATA	BD-ROM/DVD±RW	LightScribe		CH08NS10		HOP-B4100
UH08LS10	2.00									
CH10NS20	1.01	R8J32720FPV	4096 kiB	SATA	BD-ROM/DVD±RW			CH10NS20		HOP-B430
CH10LS20	1.02	R8J32720FPV	4096 kiB	SATA	BD-ROM/DVD±RW	LightScribe		CH10NS20		HOP-B430
UH10LS20	1.02									
CH10LS28	1.02									
CH12NS28	1.01	R8J32720FPV	4096 kiB	SATA	BD-ROM/DVD±RW		ASUS BC-12D1ST / BC-12B1ST a	CH10NS20		HOP-B430
UH12NS29	1.01									
CH12LS28	1.02	R8J32720FPV	4096 kiB	SATA	BD-ROM/DVD±RW	LightScribe		CH10NS20		HOP-B430
UH12LS28	1.02									
UH12LS29	1.00									
CH12NS30	1.01	MT1959USFN	2016 kiB	SATA	BD-ROM XL/DVD±RW		ASUS BC-12D2HT / BC-12B1ST b	N/A		HOP-B471
UH12NS30	1.02									
CH12NS38	1.01									
CH12NS40	1.00	???	???	SATA	BD-ROM XL/DVD±RW			N/A		
UH12NS40	1.00									
GBW-H10N	GL06	R8J32700FPV / R2S35003FT	4096 kiB	PATA	BD-RE			GBW-H10N		HOP-B100
GGW-H10N	1.04	R8J32701FPV / ???	4096 kiB	SATA	HD DVD-ROM/BD-RE			GGW-H10N		
GBW-H20N	----	R8J32702SFPV / R2A35007FT	4096 kiB	SATA	BD-RE			GGW-H20N		HOP-B300
GBW-H20L	YG01	R8J32702SFPV / R2A35007FT	4096 kiB	SATA	BD-RE	LightScribe		GGW-H20N		HOP-B300
GGW-H20N	XL07	R8J32702SFPV / R2A35007FT	4096 kiB	SATA	HD DVD-ROM/BD-RE			GGW-H20N		HOP-B300
GGW-H20L	YL07	R8J32702SFPV / R2A35007FT	4096 kiB	SATA	HD DVD-ROM/BD-RE	LightScribe	Plextor PX-B920SA	GGW-H20N		HOP-B300
BH08NS20	2.00	R8J32710RFPV / R2A35005FT	4096 kiB	SATA	BD-RE			BH08NS20		HOP-B7300
BH08LS20	2.00	R8J32710RFPV / R2A35005FT	4096 kiB	SATA	BD-RE	LightScribe		BH08NS20		HOP-B7300
WH08LS20	2.00									
BH10NS30	1.02	R8J32720FPV	4096 kiB	SATA	BD-RE			BH10NS30		HOP-B750
BH10NS38	1.03									
BH10LS30	1.02									
WH10LS30	1.02	R8J32720FPV	4096 kiB	SATA	BD-RE	LightScribe		BH10NS30		HOP-B750
BH10LS38	1.03									
BH12NS30	1.02	R8J32720FPV	4096 kiB	SATA	BD-RE	LightScribe		BH12NS30		HOP-B750
BH12NS35	1.01									
BH12NS38	1.03									
BH12LS30	1.01									
WH12LS30	1.02							BH12NS30		
BH12LS35	1.03							BH12NS35		
BH12LS38	1.03									
WH12LS38	1.03									
WH12LS39	1.03									
BH14NS40	1.03	MT1959UWDN	4064 kiB	SATA	BD-RE XL		ASUS BW-14D1XT / BW-12B1ST a	N/A		HOP-B771
WH14NS40	1.03									
BH14NS48	1.03									
BH16NS40	1.03	MT1959UWDN	4064 kiB	SATA	BD-RE XL		ASUS BW-16D1HT	N/A		HOP-B771
WH16NS40	1.02									
BH16NS48	1.02									
WH14NS40	1.00	MT1959HWDN	4064 kiB	SATA	BD-RE XL			N/A	WH14NS40 with SVC CODE: NS50 tag on the label uses hardware identical to BH16NS55	HOP-B711
BH14NS58	1.00									
BH16NS40	1.01	MT1959HWDN	4064 kiB	SATA	BD-RE XL			N/A	BH16NS40 and WH16NS40 with SVC CODE: NS50 tag on the label use hardware identical to BH16NS55	HOP-B711
WH16NS40	1.00									
BH16NS55	1.01									
BH16NS58	1.00									