

## VIS GAMEBOY BOM

This is a DIY project for electronic enthusiasts. For this reason, I am not responsible for any damage incurred while attempting this project or after completion of the project. You alone accept all risk since you are 100% liable for damage to yourself or your property..

COMPONENT	DESCRIPTION	LCSC CODE	Mfr. Part #
C1	100 $\mu$ F 6.3V 5mm	C336192	EEE0JA101WR
C3, C4	1 $\mu$ F 50V SMD 4mm	C401834	EEHC1H1R0R (alternative 865230640005)
C10	100 nF 50V 0805	C282732	TCC0805X7R104K500DT
C9, C11, C12, C13, C14, C15	10 nF 50V 0603	C100042	CC0603KRX7R9BB103
C16, C17, C18, C19	100 pF 50V 0603	C14665	CC0603JRNPO9BN101
C21, C22	27 pF 50V 0603	C162215	GRM1885C1H270FA01D
C37	10 $\mu$ F 10V 0805	C117956	GRM21BR71A106KA73L
R1, R2, R3, R4	220 $\Omega$ 250mW 0805	C163392	RC0805JR-7W220RL
R5, R6	510 $\Omega$ 125 mW 0805	C228886	AC0805FR-07510RL
R7	180 k $\Omega$ 125 mW 0805	C229089	AC0805JR-07180KL
R8	1 M $\Omega$ 125 mW 0805	C229154	AC0805JR-0715ML
R10	100 k $\Omega$ 125 mW 0805	C96346	RC0805FR-07100KL
R11	47 k $\Omega$ 125 mW 0805	C126351	RC0805FR-0747KL
DA1, DA2, DA3, DA4	100mA Switching Diode	C2910234	DA204U
D1	30V 2A SBD Diode	C12889	B230A-13-F
D2	100mA Switching Diode	C111695	1SS355VMTE-17
F1, F2	6V 2A fuse 0603	C2757930	BSMD0603L-200
Q1	30V 4.2A P channel mo	C306862	AO3401A
Quartz Crystal	4.1943 MHz		(Aliexpress)
Potentiometer	10k 5pin		(Aliexpress)
RAM x 2	SOP-28 SRAM	C1349771	AS6C6264-55SIN
DC Jack	2.5x0.7mm 2.5A 24V	C480365	DC-011
USB-C PD adapter			(Aliexpress)
U4	Bivert chip	C86613	74HC04D
SHUT AMP SWITCH	Surface Mount DPDT	C97434	SSSS820101
Video selector			
Power Switch	1212 pin 2P4T	C2939338	SK24D02G4
2 pin conn	Ph 2.0	C16965	PH-2AW
5 pin conn	Ph 2.0	C10402	PH-5AW
7 pin conn	Ph 2.0	C10403	PH-7AW
Slot cartdridge	32 pin		(Aliexpress)
Bivert ON/OFF	300mA SPDT	C109335	SSSS811101
Flat connector	21 pin pitch 1.25mm		Made-in-china.com
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C1, C2	390 nF 50V 0805	C1854267	CC0805KKX7R9BB394
C3, C4, C5	1 $\mu$ F 16V 0805	C527996	GRM21BB11C105KA01L
C6, C7, C8	100 $\mu$ F 6.3V 4mm SMD	C401761	EEFT0J101AR
R1, R3	20 k $\Omega$ 0805	C114566	RC0805FR-0720KL
R2, R4	30 k $\Omega$ 0805	C126352	RC0805FR-0730KL
R2, R4 original speaker	10 k $\Omega$ 0805	C723404	RC0805FR-7W10KL
R5	100 k $\Omega$ 250 mW 0805	C723424	RC0805FR-7W100KL
R6, R7	1 k $\Omega$ 125mW 0805	C95781	RC0805FR-071KL
L1, L2, L3	420mA 33uH 1210	C2047418	BRL3225T330K
Audio Jack		C397344	PJ-3655-SMT
U1	Audio Amp VSSOP-10 Amps	C2872995	LM4853MM/NOPB
Audio speaker	1w 8 $\Omega$		(Retrosix)
Pro-sound jack		C2939197	PJ-392M
2 pin conn	Ph 2.0	C16965	PH-2AW
5 pin conn	Ph 2.0	C10402	PH-5AW
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MAINBOARD

AUDIOBOARD

C1, C3	22 µF 10V 1206	C5672	CL31A226KPHNNNE
C2	10 µF 10V 0805	C469539	GRM219R61A106KE44D
C5, C12, C14, C19	100 nF 50 V 0805	C77082	GRM21BR71H104KA01L
C6, C7	1 µF 16V 0805	C527996	GRM21BB11C105KA01L
C11, C13	10 µF 16 V 0805	C77075	GRM21BR61C106KE15L
C15	47 µF 16 V 1210	C412254	GRM32ER61C476ME15L
R2, R3, R5, R6	1 kΩ 100mW 0603	C22548	RC0603FR-071KL
R4A	1.21 kΩ 100mW 0603	C705737	RT0603BRD071K21L
R4B	2 kΩ 100mW 0603	C227483	AC0603DR-072KL
R8	7.5 kΩ 100mW 0603	C144113	AF0603FR-077K5L
R9	100 Ω 100mW 0603	C105588	RC0603FR-07100RL
F1	30V 200mA fuse 0805	C883105	BSMD0805-020-30V
L1	22 µH	C169385	SWRB1205S-220MT
U1	DW01A		DW01A (Aliexpress)
U2	MT368	C84817	MT368
U4	LDO 5v ultra-low noise	C2864504	TPS7A2050PDBVR
U5	TP4056	C16581	TP4056-42-ESOP8
U6	SN6501 SOT23-5	C49451	SN6501DBVR
Q1	20V 6A MOSFET	C16052	FS8205A
D1	40V 3A SBD Diode	C60396	SS34F
D3, D4	60V 1A SBD	C110797	PMEG6010CEH,115
TR1	Power Transformer	C249186	760390015
UV I/O - 0.5/1A x2	300mA SPDT	C109335	SSSS811101
LED GREEN	25mA 0603	C965805	XL-1608SYGC-06
LED RED	20mA 0603	C125099	LTST-C191KRKT
3 pin conn	Ph 2.0	C10400	PH-3AW
4 pin conn	Ph 2.0	C10401	PH-4AW
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Wheel IPS	Contrast wheel	C2925423	SIQ-02FVS3
CHIP NH245	NH245	C27643	SN74LVC8T245PWR
D1, D2, D3, D4	Dual Common Cathode	C2903788	BAT54 o BAT54C
D5	Zener Diodes	C154803	MMSZ5227BT1G
C1, C2	120 nF 16V 0603	C384792	0603B124K160CT
18 pin connector	FFC/FCP pitch 0.5mm	C283125	THD0510-18CL-GF
LED WHITE	20mA 800mcd 3.5V	C2844802	L-3142UW5W
LED RED	20mA 145mcd 1.8V	C397053	MHL3014SRTS
LED BLUE	20mA 250mcd 3.5V	C417350	MHL3214UBDWT
LED GREEN	20mA 102mcd 2.2V	C397054	MHL3014GTS
R1 - WHITE LED	7.5 kΩ 100mW 0603	C144113	AF0603FR-077K5L
R1 - RED LED	2 kΩ 100mW 0603	C227483	AC0603DR-072KL
R1 - BLUE LED	7.5 kΩ 100mW 0603	C144113	AF0603FR-077K5L
R1 - GREEN LED	1 kΩ 100mW 0603	C22548	RC0603FR-071KL
Flat connector	21 pin pitch 1.25mm		Made-in-china.com
Button led white	0603	C375448	E6C0603CWAY1UDA
LED buttons switch	300mA SPDT	C109335	SSSS811101
Res button led white	3.3 kΩ 100mW 0603	C114432	RC0603JR-073K3L
Tactile switch	7mm 0.6mm Round Button	C97437	SKRRAAE010
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2 pin conn	Ph 2.0 housing	C10408	PH-2Y
3 pin conn	Ph 2.0 housing	C10409	PH-3Y
4 pin conn	Ph 2.0 housing	C10410	PH-4Y
5 pin conn	Ph 2.0 housing	C10411	PH-5Y
7 pin conn	Ph 2.0 housing	C10413	PH-7Y

POWERBOARD

IPSBOARD

FOR  
CABLES