

sub-assembly	type	name	quantity	url
audio	3D printed part	amplifier mount	1	
audio	3D printed part	amplifier cover	1	
audio	screw	DIN912 M3x6	4	
audio	screw	wood screw 3x20 torx	2	
audio	device	amplifier A502S TPA3116D2 50W	1	https://vi.aliexpress.com/item/1005003447250822.html
audio	device	kebidumei ground loop isolator	1	https://vi.aliexpress.com/item/1005001604545947.html
audio	cable	audio cable flat 20cm	1	https://vi.aliexpress.com/item/10000360130480.html
compute	3D printed part	compute mount	1	
compute	3D printed part	compute cover	1	
compute	screw	DIN912 M3x6	4	
compute	screw	wood screw 3x20 torx	4	
compute	device	Orange PI 3 LTS	1	http://www.orangepi.org/html/hardWare/computerAndMicrocontrollers/detail
compute	device	Olimex ESP32 POE	1	https://www.olimex.com/Products/loT/ESP32/ESP32-POE/open-source-
compute	screw	D84 M3x5	4	
compute	screw	D84 M2x5	3	
compute	washer	nylon M3	4	
compute	washer	nylon M2	3	
compute	cable	usb bend UC-095F	1	https://vi.aliexpress.com/item/1005005200683069.html
compute	cable	ethernet cable Left-Right, 25cm	1	https://vi.aliexpress.com/item/1005002782553550.html
dc-converter	3D printed part	dc converter mount		
dc-converter	3D printed part	dc converter cover		
dc-converter	dc-converter	TOBSUN 12V 24V TO 5V 15A	1	https://vi.aliexpress.com/item/4001107349411.html
dc-converter	connector	WAGO 221-415	2	
dc-converter	screw	DIN912 M3x6	4	
dc-converter	screw	wood screw 3x20 torx	4	
encoder	3D printed part	encoder mount	1	
encoder	screw	wood screw 4x40 torx	2	
encoder	sensor	line sensor TCRT5000L	5	
encoder	pcb	JLCPCB manufacturing (5 pcb)	1	
encoder	potentiometer	3296W 10k	5	
encoder	comparator	LM393ADT	5	
encoder	screw	DIN912 M3x5	2	

encoder	washer	nylon washer M3	2
flipper	3D printed part	flipper mount	1
flipper	3D printed part	flipper fixed spring cover	1
flipper	3D printed part	flipper damper	1
flipper	3D printed part	flipper inset	1
flipper	3D printed part	flipper bumper	1
flipper	screw	ISO10642 M4x10	4
flipper	screw	ISO7380 M4x12	2
flipper	washer	DIN125 M4	1
flipper	standoff	Würth 970700471 M4x70	1 https://ee.farnell.com/wurth-elektronik/970700471/abstandhalt-6kant-innen-
flipper	bearing hub	MT164-624ZZ-10-4	1 https://vi.aliexpress.com/item/33010273520.html
flipper	rubber band		1
flipper	damper	leather	1
flipper	spring	10x42x0.9 mm	1
flipper	screw	wood screw torx 4x40	5
limit wheel	3D printed part	limit wheel mount	6
limit wheel	washer	DIN125 M5	12
limit wheel	screw	ISO10642 M5x20	6
limit wheel	wheel	3D printed part printer wheels 625ZZ	6 https://vi.aliexpress.com/item/1005003786298839.html
limit wheel	screw	wood screw 3x20 torx	12
power relay	3D printed part	relay mount	1
power relay	3D printed part	relay mount cover	1
power relay	screw	DIN912 M3x6	4
power relay	screw	wood screw 3x20 torx	4
power relay	time relay	Relpol RPC-1ER-UNI	1 https://www.sakt.ee/en/time-relays/8872-rpc-1er-uni-time-relay-12-240acdc-
power relay	fuse	4A car fuse	1
power relay	connector	WAGO 221-413	2
power relay	connector	WAGO 221-415	1
power switch	3D printed part	power switch mount	1
power switch	switch	DPST MRS201-3C3	1 https://www.oomipood.ee/product/mrs201_3c3_klahvluliti_2_on_off_3a_250v
power switch	screw	wood screw torx 3x25	2
linear actuator	3D printed part	gear	3
linear actuator	3D printed part	logo mount	3

linear actuator	3D printed part	railings	3
linear actuator	3D printed part	gear rack	3
linear actuator	3D printed part	demo logo	4
linear actuator	servo	JX W4505-4T	3
linear actuator	screw	wood screw torx 3x25	12
speaker	3D printed part	speaker stud 1	2
speaker	3D printed part	speaker stud 2	2
speaker	screws	flat head wood screw 4x25	4
speaker	speaker	Alpine SXE-0825S	2 https://www.alpine.co.uk/p/Products/SingleView/SXE-0825S
backplate	wood	particle board / plywood 18 mm	1
backplate	screw	ISO10642 M12x70 full thread	1 https://vi.aliexpress.com/item/1005004860869917.html
backplate	washer	DIN440 M12	1
backplate	nut	DIN439 M12	1
backplate	3D printed part	wire clip small	57
backplate	3D printed part	wire clip large	3
backplate	3D printed part	led strip clip	12
backplate	screw	wood screw 3x20 torx	72
backplate	led strip	WS2812, 3m back, 60 leds/m	1
cover	3D printed part	cover logo	1
cover	3D printed part	cover base	1
cover	3D printed part	cover led ring	1
cover	3D printed part	cover locker	1
cover	3D printed part	cover logo backlight	1
cover	3D printed part	cover mantle	1
cover	led strip	5mm Black WS2812, 1m, 120 leds/m	1
cover	led strip	WS2812, 1m back, 60 leds/m	1
cover	screw	ISO10642 M3x10	8
cover	screw	ISO10642 M3x16	8
cover	screw	DIN914 45H M3x6	3
wheel	3D printed part	bearing hub ext	1
wheel	washer	DIN7349 (5,3X15X2,0)	16
wheel	screw	ISO10642 M5X30	16
wheel	pins	DIN7979 M5 8x60	16

wheel	washer	DIN125 M33	1	
wheel	screw	ISO10642 M5X45	4	
wheel	washer	DIN433 M12	1	
wheel	washer	DIN125 M12	1	
wheel	nut	DIN934 M12	1	
wheel	bearing	SKF6201	2	https://www.stokker.ee/kuullaager-6201-2z-skf-c-6201%7C2z-skf
wheel	bearing hub	MT164-6201ZZ-15-12	1	https://vi.aliexpress.com/item/33010273520.html
wheel	wood	particle board / plywood 18 mm	1	
wheel	bearing	605zz 5x14x5mm	8	https://vi.aliexpress.com/item/1005003477513135.html
wiring	wire	0.75 red H05VK075RT	6	
wiring	wire	0.75 black H05VK075SW	6	
wiring	wire	0.35 red FLRY-B0.35-BK	8	
wiring	wire	0.35 red FLRY-B0.35-RD	8	
wiring	wire	0.35 gray FLRY-B0.35-GY	4	
wiring	wire	0.35 gray FLRY-B0.35-GR	4	
wiring	wire	0.22 yellow FLRY-A0.22-YL	4	
wiring	connector	XT30U-F	2	
wiring	connector	XT30U-M	2	https://www.oomipood.ee/product/67783_gby_3_5mm_stereo_otse_pistik_3
wiring	cable	audio cable 1m	1	
finish	permanent marker	white 2mm	1	https://www.k-rauta.ee/p/veekindel-marker-2-mm-valge/e8xu
finish	blackboard paint	Tikkurila 0.3L	1	https://www.k-rauta.ee/p/eriotstarbeline-varv-tikkurila/aju
finish	chalk markers	Liquid chalk Apli	1	https://vunder.ee/en/product/liquid-chalk-apli/
power supply	power supply	20V 90W	1	
power supply	extension coord	3m XT30	1	