

# 1 ArcJoy project Bill of Materials

## 1.1 ArcJoy

### 1.1.1 Mechanical parts

Nr.	Part name	Manufacturer	Description	Number of components
1	Z20	KRADEX	Electronic case	1
2	FIX-LEM-98	FIX&FASTEN	LED Light guide	1
3	SBH-431-1A	COMFORTABLE ELECTRONIC CO., LTD.	Battery case 3xAAA with wires	1
4	M4x12 Screw		Screw, Head: cylinder, Phillips	4
5	TFF-M4X35/DR127	DREMEC	Female threaded hex standoff M4x35 mm	2
6	PS33BRD	NINIGI	Red button	1
7	Mr. JOYSTICK HK-T-8YT	Hua kang INTERNATIONAL CO;LTD	Arcade joystick	1

### 1.1.2 PCB parts

Nr.	Schem. symbol	Description	Part name	Manufacturer	Parameters	Case
1	C1, C2	Multi-layer ceramic capacitor			1 uF, 25 V, 10%	1206
2	C3	Multi-layer ceramic capacitor			10 nF, 50 V, 10%	1206
3	C4	Multi-layer ceramic capacitor			100 nF, 100 V, 10%	1206
4	C5	Tantalum capacitor			10 uF, 16V, 10%	SMD C
5	D1	BiColor LED: Red/Blue, common cathode	OSRB5131A	OptoSupply		THT 5 mm
6	F1	SMD Fuse	158000.0,375	SIBA	375 mA	2.6 x 6.1 mm
7	J1	Male pin header 6x1			Pitch: 2,54 mm	
8	Q1	P-Channel MOSFET	LGE2301	LUGUANG ELECTRONIC		SOT-23-3
9	R1, R2, R3, R4, R5, R6, R7, R8, R9, R10	Thick film resistor			10 k $\Omega$ , 1%	1206
10	R11	Thick film resistor			5.1 k $\Omega$ , 1%	1206
11	R12	Thick film resistor			330 $\Omega$ , 1%	1206
12	SW1	Dip switch, SMD, 6 poles	A6S-6101-H	OMRON		SMD
13	U1	NRF52810 microcontroller module	BM832A	Fanstel		BGA
14	U2	Voltage regulator	MCP1711T-25I/OT	MICROCHIP TECHNOLOGY	2.5 V	SOT23-5

## 1.2 ArcBase – all parts

Nr.	Part name	Manufacturer	Description	Number of components
1	NRF52840-DONGLE	Nordic Semiconductor	Usb dongle	1
2	ZL322-2X5P	CONNFY	Programming connector	1