Arduboy CE BOM

Ref	Purpose	Description	Mfr/Vendor	P/N	DigiKey P/N	Qty	Unit	Price	Ext	Price	Vendor Link	Note
BZ1	Buzzer	AUDIO PIEZO TRANSDUCER 30V TH	TDK Corporation	PS1240P02CT3	445-5229-1-ND	1	\$	0.67	\$	0.67	https://www.digi	
C1, C2	Regulator capacitors	CAP CER 1UF 50V Y5V RADIAL	Vishay Components	K105Z20Y5VF5TL2	BC1162CT-ND	2		\$0.47	7 \$	0.94	https://www.digi	
D1, D2	Power selection diodes	DIODE SCHOTTKY 20V 1A DO41	ON Semiconductor	SB120	SB120FSCT-ND	2					https://www.digi	
J1	Game cartridge connector	CART SOCKET 2X14P (28P)	4UCON	7861		1		\$4.50	\$	4.50	http://www.4uco	Possible alternative from AliExpress: https://www.aliexpress.com/item/4001146953252.html
J2	EXT header	1X11 RIGHT ANGLE FEMALE HEADER	Adafruit Industries Inc.	1542		1		\$0.30	\$	0.30	https://www.ada	
R1	Reset button pull-up	RES 10K OHM 1/6W 5% AXIAL	Yageo	CFR-12JB-52-10K	10KEBK-ND	1		\$0.10	\$	0.10	https://www.digi	
RV1	Volume wheel	POT 10K OHM THUMBWHEEL CERM ST	Bourns Inc.	3352T-1-103LF	3352T-103LF-ND	1	\$	2.14	\$	2.14	https://www.digi	
SW1	Power switch	SWITCH SLIDE SPDT 300MA 6V	E-Switch	EG1270	EG1847-ND	1		\$0.81	\$	0.81	https://www.digi	
SW2	Reset button	SWITCH TACTILE SPST-NO 0.05A 24V - RIGHT ANGLE	TE Connectivity	1825027-5	450-1662-ND	1	\$	0.18	\$	0.18	https://www.digi	
SW3, SW4, SW5, SW6, SW7, SW8	A/B/up/down/left/right buttons	SWITCH TACTILE SPST-NO 0.05A 24V	Omron Electronics Inc.	B3F-1050	SW404-ND	6	\$	0.32	\$	1.92	https://www.digi	1 million cycle lifespan
U1	Battery charger module	MICRO LIPO USB	Adafruit Industries Inc.	1904		1	\$	6.95	\$	6.95	https://www.ada	Polarity MUST match Adafruit battery, if buying elsewhere
U2	3.3V regulator	IC REG LINEAR 3.3V 250MA TO92-3	Microchip Technology	MCP1700-3302E/TO	MCP1700-3302E/TO-ND	1	\$	0.39	\$	0.39	https://www.digi	
U3	Screen	2.42" OLED DISPLAY	DIY More	030526LV		1	\$	20.99	\$	20.99	https://www.diyr	Should come with 7-pin header
	A/B button caps	CAP TACTILE ROUND BLACK	Omron Electronics Inc.	B32-2010	SW1139-ND	2	\$	0.76	\$	1.52	https://www.digi	
	D-pad button caps	KEY CAP BLACK	Omron Electronics Inc.	B32-2110	Z8523-ND	4	\$	0.92	\$	3.68	https://www.digi	
	Microcontroller	ARDUINO PRO MICRO 5V 16MHZ	Amazon			1	\$	7.33	\$	7.33	https://www.am	1 needed per game cart
	Rechargeable battery	500 MAH RECHARGEABLE LIPO	Adafruit Industries Inc.	1578		1	\$	7.95	\$	7.95	https://www.ada	
	Charger board header	1X4 STRAIGHT MALE HEADER	Adafruit Industries Inc.	392		1	\$	0.06	\$	0.06	https://www.ada	1 needed per game cart
	Battery mounting tape	3M 1" FOAM MOUNTING SQUARE	Amazon			1	\$	0.12	\$	0.12	https://www.am	\$2.99 for 24-pack
	Front shell standoffs	M2.5 FEMALE-FEMALE NYLON STANDOFF				4	\$	0.10	\$	0.40		Good combo option from Adafruit
	Back shell standoffs	M2.5 FEMALE-MALE NYLON STANDOFF				4	\$	0.10	\$	0.40		(though screws are NOT countersink): https://www.adafruit.com/product/3299
	Shell screws	M2.5 COUNTERSINK NYLON SCREW				8	\$	0.10	\$	0.80		Also easy to find these on AliExpress
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