## dotMG (Pro Micro) BOM

Ref	Purpose	Description	Mfr/Vendor	P/N	DigiKey P/N	Qty	Un	it Pric	e Ex	t Price	Vendor Link	Note
BZ1	Buzzer	AUDIO PIEZO TRANSDUCER 30V TH	TDK Corporation	PS1240P02CT3	445-5229-1-ND		1 \$	0.6	7 \$	0.67	https://www.digil	
D1, D2	Power selection diodes	DIODE SCHOTTKY 20V 1A DO41	ON Semiconductor	SB120	SB120FSCT-ND	:	2	\$0.4	43 \$	0.86	https://www.digil	
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	1X10 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 \$	2.1	4 \$	2.14	https://www.digi	
SW1	Power switch	SWITCH SLIDE SPDT 300MA 6V	E-Switch	EG1270	EG1847-ND		1	\$0.8	31 \$	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 \$	0.1	8 \$	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		5 \$	0.3	2 \$	1.92	https://www.digil	1 million cycle lifespan
U1	Battery charger module	MICRO LIPO USB	Adafruit Industries Inc.	1904			1 \$	6.9	5 \$	6.95	https://www.ada	Polarity MUST match Adafruit battery, if buying elsewhere
U2	Screen	2.42" OLED DISPLAY	DIY More	030526LV			1 \$	20.9	9 \$	20.99	https://www.diyn	Should come with 7-pin header
	A/B button caps	CAP TACTILE ROUND BLACK	Omron Electronics Inc.	B32-2010	SW1139-ND	:	2 \$	0.7	6 \$	1.52	https://www.digi	
	D-pad button caps	KEY CAP BLACK	Omron Electronics Inc.	B32-2110	Z8523-ND		4 \$	0.9	2 \$	3.68	https://www.digi	
	Microcontroller	ARDUINO PRO MICRO 5V 16MHZ	Amazon				1 \$	7.3	3 \$	7.33	https://www.ama	1 needed per game cart, should come with headers
	Rechargeable battery	500 MAH RECHARGEABLE LIPO	Adafruit Industries Inc.	1578			1 \$	7.9	5 \$	7.95	https://www.ada	
	Charger board header	1X4 STRAIGHT MALE HEADER	Adafruit Industries Inc.	392			1 \$	0.0	6 \$	0.06	https://www.ada	
	Charger board support	1X1 RIGHT ANGLE FEMALE HEADER	Adafruit Industries Inc.	1542			1	\$0.0	3 \$	0.03	https://www.ada	Mechanical support only. No electrical function.
	Battery mounting tape	1" FOAM MOUNTING SQUARE	Amazon				1 \$	0.1	2 \$	0.12	https://www.ama	\$2.99 for 24-pack
	Front shell standoffs	5MM M2.5 MALE-FEMALE NYLON STANDOFF					4 \$	0.1	0 \$	0.40		Good combo option from Adafruit
	Back shell standoffs	8MM M2.5 MALE-MALE NYLON STANDOFF					4 \$	0.1	0 \$	0.40		(though screws are NOT countersink): https://www.adafruit.com/product/3299
	Shell screws	3MM M2.5 COUNTERSINK NYLON SCREW					3 \$	0.1	0 \$	0.80		Also easy to find these on AliExpress
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