

PCB BOM

Designator	Part Description	Notes	Package	Manufacturer	Manufacturer Part Number	Qty 1 Board	Qty 4 Boards	Qty to Order	Qty 1 Cost	Total Cost	Order Status		Total Cost	\$129.22		Ammount Spent by Each							
U1	AVR AVR® ATmega Microcontroller IC 8-Bit 20MHz 8KB (4K x 16) FLASH 32-TQFP (7x7)		32-TQFP	Atmel	ATMEGA88-20AURCT-ND	1	4	4	\$4.78	\$19.12	Ordered		Cost Per Person	\$32.30		Slava	\$114.80	Max	\$0.00	Roman	\$34.71	Aleksey	\$28.79
U2	Linear Voltage Regulator IC Positive Adjustable 1 Output 1.25 V ~ 37 V 1A SOT-223-4		TO-261-4	Texas Instruments	LM317AEMP/NOPB	1	4	4	\$1.78	\$7.12						ICs, Crystals	\$46.05			Window Shades	\$22.21	Servo	\$13.99
U3	IC IR RCVR MOD 38KHZ DOME RADIAL				TSOP38238	1	4	4	\$1.12	\$4.48						PCBs	\$34.00			Locker	\$12.50	Belts	\$9.26
J1	Power Barrel Connector Jack 2.00mm ID (0.079"), 5.50mm OD (0.217") Through Hole, Right Angle				RAPC722X	1	4	4	\$0.90	\$3.60						Programer	\$20.00					2 Pulleys	\$5.54
J2	6 Positions Header, Unshrouded, Breakaway Connector 0.100" (2.54 mm) Through Hole, Right Angle Tin	1X6 Servo/LDR		Molex	901210126	1	4	4	\$0.82	\$3.28						RGB LEDs	\$5.76						
J3	6 Positions Header, Unshrouded Connector 0.100" (2.54mm) Through Hole Gold or Gold, GXT™	2X3 ISP		Amphenol FCI	67997-106HLF	1	4	4	\$1.65	\$6.60						Power Brick	\$8.99						
B1-B4	Tactile Switch SPST-NO Top Actuated Surface Mount			TE Connectivity	3-1437565-0	4	16	22	\$0.17	\$3.81													
S1	Slide Switch SPDT Through Hole			TE Connectivity	1825255-1	1	4	6	\$0.74	\$4.14													
TP1-TP6	Yellow PC Test Point, Miniature 0.100" Dia x 0.180" L (2.54mm x 4.57 mm) Phosphor Bronze, Silver Plating 0.040" (1.02mm) Hole Diameter Mounting Type			Keystone	5004	6	24	34	\$0.32	\$10.75													
X1	16MHz ±30ppm Crystal 20pF 40 Ohm -20°C ~ 70°C Through Hole HC49US			Fox Electronics	FOXSLF/160-20	1	4	6	\$0.33	\$1.85	Ordered												
D1						1	4				Ordered												
D2						1	4				Ordered												
C1, C2	10µF 16V Aluminum Capacitors Radial, Can - SMD 2000 Hrs @ 85°C	10µF, 16V		Panasonic	EEE-1CA100SR	2	8	11	\$0.30	\$3.36													
C3-C5, C9-C11	0.10µF ±10% 16V Ceramic Capacitor X7R 0805 (2012 Metric)	100nF, 16V	0805	Wurth Electronics	885012207045	6	24	50	\$0.07	\$3.25													
C6, C7	22pF ±5% 16V Ceramic Capacitor C0G, NP0 0805 (2012 Metric)	22pF, 16V	0805	Wurth Electronics	885012007012	2	8	11	\$0.10	\$1.12													
C8	1µF ±10% 16V Ceramic Capacitor X7R 0805 (2012 Metric)	1µF, 16V	0805	Wurth Electronics	885012207051	1	4	6	\$0.17	\$0.95													
R1	RES SMD 240 OHM 5% 1/2W 0805	240, 1%, Large Power	0805	Panasonic	ERJ-P06J241V	1	4	6	\$0.12	\$0.67													
R2	RES SMD 732 OHM 1% 1/8W 0805	715 1%, Large Power	0805	Panasonic	ERJ-6ENF7320V	1	4	6	\$0.10	\$0.56													
R2	RES SMD 715 OHM 1% 1/8W 0805	Second Value Just in Case	0805	Panasonic	ERJ-6ENF7150V	1	4	6	\$0.10	\$0.56													
R3, R7, R17, R18	RES SMD 10K OHM 5% 1/2W 0805	10K, 5%, 0.5W	0805	Panasonic	ERJ-P06J103V	4	16	22	\$0.12	\$2.69													
R8	RES SMD 0.0 OHM JUMPER 1/8W 0805	Jumper (Want Extra)	0805	Panasonic	ERJ-6GEY0R00V	1	4	22	\$0.10	\$2.20													
R10	RES SMD 1K OHM 5% 1/8W 0805	1k, 0805	0805	Panasonic	ERJ-6GEY1102V	1	4	6	\$0.10	\$0.56													
R12	RES SMD 22 OHM 5% 1/2W 0805	22, 5%, 0.5W	0805	Panasonic	ERJ-P06J220V	1	4	6	\$0.12	\$0.67													
R13-R16	RES SMD 220 OHM 5% 1/2W 0805	220, 5%, .25W	0805	Panasonic	ERJ-P06J221V	4	16	22	\$0.12	\$2.69													
						45																	
PCB	---	---	---	OSH Parks	---	4	---	4			Ordered												
Non PCB Parts																							
LDR				Luna	PDV-P9001	1	4	6	\$1.87	\$10.47													
	Window Shades					1	1	1	\$22.21	\$22.21	Ordered												
	Locker					1	1	1	\$12.50	\$12.50	Ordered												
	Servo					0	0	0		\$0.00	Ordered												
Ribbon Cable						0	0	0		\$0.00													