STFU_v1 : Parts List + Cost

Id	Reference	Value	Manufacturer	Mfr. P/N	Vendor	Vendor P/N	QTY	RATE	AMOUNT
1	C1,C2,C4,C5,C7,C8	100n	Kemet	C0805C104K3RACTU	DigiKey	399-1168-1-ND	6	0.07	0.42
2	C3	100u	Nichicon	UCL1E101MCL1GS	DigiKey	493-3937-1-ND	1	0.87	0.87
3	D1 to D60	LED	Cree Inc	CLM3C-WKW-CWBYA453	DigiKey	CLM3C-WKW-CWBYA453CT-ND	60	0.25	15.00
4	D61	Z15V	ON Semiconductor	MM3Z15VT1G	DigiKey	MM3Z15VT1G0SCT-ND	1	0.16	0.16
5	D63	PWR	Cree Inc	CLM3C-WKW-CWBYA453	DigiKey	CLM3C-WKW-CWBYA453CT-ND	1	0.25	0.25
6	K1	FTDI	Sullins Connector Solutions	PREC040SAAN-RC	DigiKey	S1012EC-40-ND	1	0.51	0.51
7	K2	ISP	--	--	--	--	1	0.00	0.00
8	K3	I2C	--	--	--	--	1	0.00	0.00
9	K4	SERVO	--	--	--	--	1	0.00	0.00
10	K5	V_SEL	--	--	--	--	1	0.00	0.00
11	P1,P2	CONN_1	--	--	--	--	2	0.00	0.00
12	P3,P5	HAND_HI	--	--	--	--	2	0.00	0.00
13	P4,P6	HAND_LO	--	--	--	--	2	0.00	0.00
14	P7	BATT_12V	On Shore Technology Inc	OSTTA024163	DigiKey	ED2580-ND	1	0.45	0.45
15	Q1	PNP	NXP Semiconductors	PBSS9110Z,135	DigiKey	568-6798-1-ND	1	0.44	0.44
16	R1,R4,R5,R6,R7,R38,R39	10k	Stackpole Electronics Inc	RMCF0805JT10K0	DigiKey	RMCF0805JT10K0CT-ND	7	0.03	0.21
17	R2,R30,R31,R32,R33,R34,R35,R36,R37	100E	Stackpole Electronics Inc	RMCF0805JT100R	DigiKey	RMCF0805JT100RCT-ND	9	0.03	0.27
18	R3,R40	1k	Stackpole Electronics Inc	RMCF0805JT1K00	DigiKey	RMCF0805JT1K00CT-ND	2	0.03	0.06
19	R8 to R29	120E	Stackpole Electronics Inc	RMCF0805JT120R	DigiKey	RMCF0805JT120RCT-ND	22	0.03	0.66
20	SW1	RST	--	--	--	--	1	0.00	0.00
21	SW2	RST	TE Connectivity	FSM2JH	DigiKey	450-1649-ND	1	0.20	0.20
22	SW3	SW_MODE	TE Connectivity	FSM2JH	DigiKey	450-1649-ND	1	0.20	0.20
23	SW4	SW_INC	TE Connectivity	FSM2JH	DigiKey	450-1649-ND	1	0.20	0.20

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Id	Reference	Value	Manufacturer	Mfr. P/N	Vendor	Vendor P/N	QTY	RATE	AMOUNT
24	SW5	SW_DEC	TE Connectivity	FSM2JH	DigiKey	450-1649-ND	1	0.20	0.20
25	SW6	SW_ENT	TE Connectivity	FSM2JH	DigiKey	450-1649-ND	1	0.20	0.20
26	TP1,TP2,TP3,TP4	CONN_1	--	--	--	--	4	0.00	0.00
27	U1	ATMEGA328-P	Atmel	ATMEGA328-PU	DigiKey	ATMEGA328-PU-ND	1	2.88	2.88
28	U2	HEF4051B	NXP Semiconductors	HEF4051BT,652	DigiKey	568-3979-5-ND	1	0.49	0.49
29	U3	ULN2803	Texas Instruments	ULN2803ADWR	DigiKey	296-15777-1-ND	1	0.90	0.90
30	U4	7809	STMicroelectronics	L7809CD2T-TR	DigiKey	497-1176-1-ND	1	0.67	0.67
31	U5	7805	ON Semiconductor	NCP1117DT50G	DigiKey	NCP1117DT50G0S-ND	1	0.48	0.48
32	X1	16MHz	ECS Inc	ZTT-16.00MX	DigiKey	X908-ND	1	0.70	0.70
						Shipping			14.00
	OTHER PARTS								
	SV1	SERVO	Vigor	VTS-08B		RoboSoft Systems	1	9.17	9.17
		Connection Flat Cable					1	0.83	0.83
		Mounting Bracket					1	8.33	8.33
		Hardware					1	1.67	1.67
		Acrylic (Laser cut)					1	8.33	8.33
	PCB1	PCB	OSHPark.com	2 layers, 6.02x4.77 in. (153x121mm). $143.35 for set of three plus Shipping			1	55.00	55.00
						TOTAL, US$			**123.75**
						TOTAL, ₹ , @	**60**		**7425.20**