

Item	Qty	Reference(s)	Value	
	1	20 C1, C2, C3, C4, C5, C6	0.1u	
	2	10 C8, C9, C12, C13	10u	
	3	10 C11	1u	
	4	5 D1, D5, D6, D8	RED	
	5	5 D2, D3, D9	BLUE	
	6	5 D4	GREEN	
	7	10 D7	D_Schottky	
	8	3 J1	~	
	9	3 J1	~	
	10	3 J2	~	
	11	3 J2	~	
	12	3 J3	~	
	13	3 J3	~	
	14	3 J4	~	
	15	3 J4	~	
	16	3 J5	~	
	17	3 J5	~	
	18	3 J6	~	
	19	3 J6	~	
	20	3 J7	~	
	21	3 J7	~	
	22	2 K1	G5Q-1A	
	23	10 L1	28nH	
	24	5 Q1	2N7002	
	25	5 R1, R6	1k	
	26	3 R2	10k	
	27	3 R3	1.21k	
	28	5 R4, R5		787
	29	5 R7, R8, R9		200
	30	10 R10, R12, R13, R14		30
	31	3 R11		50
	32	5 R15, R16	2.4k	
	33	4 T1, T2	PE-68386NL	
	34	1 U1	PIC32MZ2048EFM06	
	35	1 U2	PDM2-S24-S5-S	
	36	1 U3	LT1763CS8-3.3-PBF	
	37	2 U4	MCP2551-I-SN	
	38	1 U5	LTC6820	
	39	5 U6	TLP291	
	40	1 LCD	~	

Description	Manufacturer	Manufacturer ID
Capacitor	Samsung	CL21F104ZBCNNNC
Capacitor	Taiyo Yuden	TMK212BBJ106KG-T
Capacitor	Samsung	CL21A105KBCLNNC
LED	Lite-On	LTST-C171KRKT
LED	Würth	150080BS75000
LED	Lite-On	LTST-C171GKT
Schottky Diode	Diodes Inc	BAT54-7-F
Conn_01x06	Molex	39281063
Conn_01x06_female	Molex	39012060
Conn_01x04	Molex	39281043
Conn_01x04_female	Molex	39012040
Conn_01x06	Molex	39281063
Conn_01x06_female	Molex	39012060
Conn_01x04	Molex	39281043
Conn_01x04_female	Molex	39012040
Conn_01x05	Molex	7.05E+08
Conn_01x05_female	Molex	50579405
Conn_01x04	Molex	50579405
Conn_01x04_female	Molex	7.04E+08
Conn_01x08	Molex	9.01E+08
Conn_01x08_female	Molex	9.01E+08
Relay:G5Q-1A	Omron	G5Q-1A4 DC24
Inductor	Murata	LQW18AN28NJ8ZD
Transistor_FET:2N7002	ON	2N7002
Resistor	Panasonic	ERA-6AEB102V
Resistor	Panasonic	ERA-6AEB103V
Resistor	Panasonic	ERA-6AEB1211V
Resistor	Panasonic	ERA-6AEB7870V
Resistor	Panasonic	ERA-6AEB201V
Resistor	Panasonic	ERA-6AHD300V
Resistor	Panasonic	ERA-6AEB510V
Resistor	Panasonic	ERA-6AEB242V
Transformer:PE-68386NL	Pulse	PE-68386NLT
PIC32MZ2048EFM064-I_PT	Microchip	PIC32MZ2048EFM064-
PDM2-S24-S5-S	CUI Inc	PDM2-S24-S5-S
LT1763CS8-3.3-PBF	Linear Tech	LT1763CS8-3.3#PBF
Interface_CAN_LIN:MCP2551-I-SN	Microchip	MCP2551-I/SN
LTC6820	Linear Tech	LTC6820IMS#3ZZPBF
Isolator:TLP291	Toshiba	TLP291(GB-TP,SE
LCD Display	Crystalfontz	CFA533-TMI-KC
TOTAL		

Vendor	Vendor ID	Unit Price	Total Price	
Digikey	1276-1007-1-ND	0.1	2	
Digikey	587-2985-1-ND	0.2	2	Replaced w 1276-6454-1-ND
Digikey	1276-2396-1-ND	0.19	1.9	
Digikey	160-1427-1-ND	0.31	1.55	
Digikey	732-4982-1-ND	0.18	0.9	
Digikey	160-1423-1-ND	0.29	1.45	
Digikey	BAT54-FDICT-ND	0.16	1.6	
Digikey	WM3802-ND	1.06	3.18	
Digikey	WM3702-ND	0.38	1.14	
Digikey	WM3801-ND	0.81	2.43	
Digikey	WM3701-ND	0.31	0.93	
Digikey	WM3802-ND	1.06	3.18	
Digikey	WM3702-ND	0.38	1.14	
Digikey	WM3801-ND	0.81	2.43	
Digikey	WM3701-ND	0.31	0.93	
Digikey	WM4803-ND	1.14	3.42	
Digikey	WM2903-ND	0.36	1.08	
Digikey	0705430274-ND	1.43	4.29	Replaced w WM4826-ND
Digikey	0704002042-ND	0.64612	1.93836	Replaced w WM2902-ND
Digikey	WM8248-ND	1.73	5.19	
Digikey	WM8036-ND	1.05	3.15	
Digikey	Z224-ND	1.55	3.1	
Digikey	490-15669-1-ND	0.28	2.8	
Digikey	2N7002NCT-ND	0.39	1.95	
Digikey	P1.0KDACT-ND	0.36	1.8	
Digikey	P10KDACT-ND	0.36	1.08	
Digikey	P1.21KDACT-ND	0.36	1.08	
Digikey	P787DACT-ND	0.36	1.8	
Digikey	P200DACT-ND	0.36	1.8	
Digikey	P123896CT-ND	0.11	1.1	
Digikey	P51DACT-ND	0.36	1.08	
Digikey	P2.4KDACT-ND	0.36	1.8	
Digikey	553-1776-2-ND	1.287	5.148	Replaced w 553-1776-1-ND
Digikey	PIC32MZ2048EFM064	11.32	11.32	
Digikey	102-2731-ND	5.97	5.97	
Digikey	LT1763CS8-3.3#PBF-I	4.23	4.23	
Digikey	MCP2551-I/SN-ND	1.05	2.1	
Digikey	LTC6820IMS#3ZZPBF	6.07	6.07	
Digikey	TLP291(GB-TPSECT-I	0.51	2.55	
Crystalfontz	CFA533-TMI-KC	55.42	55.42	HOLD ON THIS! WE can order this I
			158.026	

later.