



	Name	Description	Designator	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
_	LCD OSC_SMD		LCD1 OSC1	- 1							
	FT232RL IS61LV25616AL		U1								
	Voltage Regulator		U6, U7, U16	3							
1	240512		U13 U15								
	Voltage_Reg_Fan MICRO_USB		USB1, USB2	2							
	Diode 1N4001	1 Amp General Purpose Rectifier	D3	1							
	1	1K, 128x8-bit, 2.5V Microwire									
	1	Microwire Serial									
	93LC46A-E/SN	EEPROM, 8-	U11	1	Microchip	93LC46A-E/SN	Volume Production	Digi-Key	93LC46A-E/SN-ND		
	1	EEPROM, 8- Pin SOIC 150mil,									
	1	Extended									
		3.0V TO 5.5V,									
	1	Low-Power, up to 1Mbps, True RS-232									
	MAX3232CPE	True RS-232 Transceiver	U14	1							
		Using Four									
		0.1µF External Capacitor									
	100uH- 3mA	100uH-3mA	L3	1							
	1										
	1		C1, C2, C3, C4,								
1			C5, C6, C7, C8, C9, C10, C11, C12, C13, C14,								
			C9, C10, C11, C12, C13, C14,								
			C15, C16, C17,								
	Cap	Capacitor	C15, C16, C17, C18, C19, C20, C21, C22, C23,	43							
	Cap	Capacitos		45							
			C27, C28, C30, C31, C33, C34,								
			C35, C37, C39, C44, C58, C59.								
ıl		1	C35, C37, C39, C44, C58, C59, C60, C61, C62, C70, C72				l	1			
ıl		1					l	1			
		1					l	1			
	Cap2	Capacitor	C29, C32, C38,	4							
	Сар	Capacitor	C71 C36	1							
=	Capacitor Cap	Capacitor Capacitor	C40 C41	- 1							
	Cap	Capacitor	C42, C43	2							
		1	C45, C46, C47,					1			
	c		C48. C52. C54.					1			
1	Cap	Capacitor	C55, C56, C57, C63, C64, C65, C66, C67, C68,	16			l	1			
ıl		1	C69				l	1			
=	Cap	Capacitor	C73								
	14.7456MHz	Crystal Oscillator	YI .	1		-		1			
	1.2MHz		12	- 1							
		Oscillator DIP Switch, 8 Position, SPST									
$\vdash$	SW DIP-8	Position, SPST	S1	- '							
1		Dual High Speed USB To Multipurpose UART/FIFO IC,									
	FT2232HL-Roel	UART/FIFO IC,	US	- 1							
	1	LOFP-64, Tape and Reel									
	Header 2	Hearler 2.Pin	P8								
	SWD_Micro	Header, 5-Pin Header, 5-Pin,	P2	-							
	Header 5X2H	Dual row, Right Angle	PS .	1							
	Array 10K	Header, 9-Pin Header, 9-Pin,	P1	- 1							
	Header 9X2	Dual row	P4	- 1							
	Header 15X2	Header, 15- Pin, Dual row	P6, P7	2							
	Ferrite Bead Inductor	Inductor Inductor	F1, F2, F3 L1, L2	3							
		Polarized	C49, C50, C51,								
	Cap Pol2	Capacitor (Axial)	C53	4							
	R POT 1K	Potentiometer	R64	1							
		Receptacle Assembly, 9									
	D Connector 9	Position, Right	л	1							
-		Angie Receptacle									
	Connector 15	Assembly, 15- Pin, Sim Line	VGA1	1							
$\square$		Connector						i		i l	i .
<u> </u>	Res1		D4 D20 P24								
		Resistor	R6, R28, R29, R30, R34, R75	6							
	Res1	Resistor	R30, R34, R75 R23, R42, R46, R50	6							
	Res1	Resistor Resistor	R30, R34, R75 R23, R42, R46, R50	6 4 2							
	Res1	Resistor Resistor Resistor	R30, R34, R75 R23, R42, R46, R50 R27, R70 R31, R32, R33,	4 2 5							
	Res1	Resistor Resistor	R30, R34, R75 R23, R42, R46, R50 R27, R70 R31, R32, R33, R35, R36 R37, R58, R59,	6 4 2 5							
	Res1	Resistor Resistor Resistor	R30, R34, R75 R23, R42, R46, R50 R27, R70 R31, R32, R33, R35, R36 R37, R58, R59, R60, R61	4 2 5							
	Res1	Resistor Resistor Resistor	R30, R34, R75 R23, R42, R46, R50 R27, R70 R31, R32, R33, R35, R36 R37, R58, R59, R60, R61 R38, R39, R40, R41, R43, R47, R51, R54, R55,	4 2 5							
	Res1 Res1	Resistor Resistor Resistor Resistor	R30, R34, R75 R23, R42, R46, R50 R27, R70 R31, R32, R33, R35, R36 R37, R58, R59, R60, R61 R38, R39, R40, R41, R43, R47, R54, R55, R56, R57, R65,	4 2 5							
	Res1 Res1 Res1	Resistor Resistor Resistor Resistor Resistor	R30, R34, R75 R23, R42, R46, R50 R27, R70 R31, R32, R33, R35, R36 R37, R58, R59, R60, R61 R38, R39, R40, R41, R43, R47, R51, R54, R55, R56, R57, R65,	4 2 5							
	Res1 Res1 Res1 Res1 Res1	Resistor Resistor Resistor Resistor Resistor Resistor Resistor	R30, R34, R75 R23, R42, R46, R50 R27, R70 R31, R32, R33, R35, R36, R36, R37, R58, R59, R60, R61 R38, R39, R40, R41, R43, R47, R51, R54, R55, R56, R57, R65, R68	5 5 13							
	Res1 Res1 Res1	Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor Resistor	R30, R34, R75 R23, R42, R46, R50 R27, R70 R31, R32, R33, R35, R36 R37, R58, R59, R60, R61 R38, R39, R40, R41, R43, R47, R51, R54, R55, R56, R57, R65,	4 2 5							
	Res1 Res1 Res1 Res1 Res1	Resistor	R30, R34, R75 R23, R42, R46, R50 R27, R70 R31, R32, R33, R35, R36 R37, R58, R59, R60, R61 R38, R39, R40, R41, R43, R47, R51, R54, R52, R56, R57, R65, R68 R44, R48, R52 R45, R49, R53 R65, R65, R65, R65	5 5 13							
	Rest Rest Rest Rest Rest Rest Rest Rest	Resistor	230, 824, 875 823, 842, R46, 850 827, 870 821, 832, R33, 835, 836 837, 858, 859, 860, 861 838, 839, R40, 841, 843, R47, 851, 854, R55, 856, 857, R65, 868 844, 848, R52 845, 849, R53 862, 863, 866, 867	5 5 13							
	Res1   Re	Resistor Schottky Resistor Switcher SMPTE	230, 824, 875 823, 842, R46, 850 827, 870 821, 832, R33, 835, 836 837, 858, 859, 860, 861 838, 839, R40, 841, 843, R47, 851, 854, R55, 856, 857, R65, 868 844, 848, R52 845, 849, R53 862, 863, 866, 867	5 5 13							
	Res1 Res1 Res1 Res1 Res1 Res1 Res1 Res1	Resistor Schottky Reciflor SWITCHER: 3A SWPLE SWITCHER: 3A Sep-Down Voltage Resistor	200. R344, R75 R23, R42, R46, 850 827, R70 821, R32, R34, R35, R36 R31, R32, R39, R36, R39, R40, R41, R42, R47, R56, R85, R86, R87, R85, R86, R87, R86, R86, R86, R87, R86, R87, R86, R86, R86, R87, R86, R87, R86, R86, R86, R87, R86, R86, R86, R86, R86, R87, R86, R8	5 5 13							
	Res1  Res1  Res1  Res1  Res1  Diode 110003  LM2576HVT-5.0	Resistor Schottky Reciflor SWITCHER: 3A SWPLE SWITCHER: 3A Sep-Down Voltage Resistor	200. E24, R75 203, 842, R46, 850 827, R70, 827, R70, 825, R30, 825, R30, 825, R30, 820, R30, 830, R30, 840, R31, 841, R47, 851, R54, R55, 858 860 860, R57, R65, 87, 886 887 897 897 897 897 897 897 897	5 5 13							
	Res1 Res1 Res1 Res1 Res1 Res1 Res1 Res1	Resistor Res	200. R344, R75 R23, R42, R46, 850 827, R70 821, R32, R34, R35, R36 R31, R32, R39, R36, R39, R40, R41, R42, R47, R56, R85, R86, R87, R85, R86, R87, R86, R86, R86, R87, R86, R87, R86, R86, R86, R87, R86, R87, R86, R86, R86, R87, R86, R86, R86, R86, R86, R87, R86, R8	5 5 13							
	Res1 Res1 Res1 Res1 Res1 Res1 Res1 Res1	Resistor Res	200. E24, R75 203, 842, R46, 850 827, R70, 827, R70, 825, R30, 825, R30, 825, R30, 820, R30, 830, R30, 840, R31, 841, R47, 851, R54, R55, 858 860 860, R57, R65, 87, 886 887 897 897 897 897 897 897 897	5 5 13							
	Res1 Res1 Res1 Res1 Res1 Res1 Res1 Res1	Resistor Schottsy Recific Schottsy Recific SwiTcHE: 3A	820. 824, 875 823, 842, 846, 850 827, 870 821, 812, 823, 821, 812, 823, 827, 838, 859, 841, 843, 847, 841, 843, 847, 841, 843, 847, 843, 847, 846, 853, 856, 857, 865, 867, 865, 868, 87, 865, 886, 887, 885, 886, 887, 885, 887, 888, 8	5 5 13							
	Res1 Res1 Res1 Res1 Res1 Res1 Res1 Res1	Resistor Res	200. E24, R75 203, 842, R46, 850 827, R70, 827, R70, 825, R30, 825, R30, 825, R30, 820, R30, 830, R30, 840, R31, 841, R47, 851, R54, R55, 858 860 860, R57, R65, 87, 886 887 897 897 897 897 897 897 897	5 5 13				Digi-Key	KC5604-9'0306' NO		
	Res1 Res1 Res1 Res1 Res1 Res1 Res1 Res1	Resistor Schottsy Recific Schottsy Recific SwiTcHE: 3A	820. 824, 875 823, 842, 846, 850 827, 870 821, 812, 823, 821, 812, 823, 827, 838, 859, 841, 843, 847, 841, 843, 847, 841, 843, 847, 843, 847, 846, 853, 856, 857, 865, 867, 865, 868, 87, 865, 886, 887, 885, 886, 887, 885, 887, 888, 8	5 5 13				Digi-Key	KI560-PC20C-N0		
	861 861 861 861 861 861 861 861 861 861	Resistor Res	820. 824, 875 823, 842, 846, 850 827, 870 821, 812, 823, 821, 812, 823, 827, 838, 859, 841, 843, 847, 841, 843, 847, 841, 843, 847, 843, 847, 846, 853, 856, 857, 865, 867, 865, 868, 87, 865, 886, 887, 885, 886, 887, 885, 887, 888, 8	5 5 13				Digi-Key	K.1560-9°0200C-ND		
	Best 1 Rest 1 Re	Resistor Res	820. 824, 875 823, 842, 846, 850 827, 870 821, 812, 823, 821, 812, 823, 827, 838, 859, 841, 843, 847, 841, 843, 847, 841, 843, 847, 843, 847, 846, 853, 856, 857, 865, 867, 865, 868, 87, 865, 886, 887, 885, 886, 887, 885, 887, 888, 8	5 5 13				Digi-Key	NC3560-PO206C-NO		
	Best   Be	Resistor Res	820. 824, 875 823, 842, 846, 850 827, 870 821, 812, 823, 821, 812, 823, 827, 838, 859, 841, 843, 847, 841, 843, 847, 841, 843, 847, 843, 847, 846, 853, 856, 857, 865, 867, 865, 868, 87, 865, 886, 887, 885, 886, 887, 885, 887, 888, 8	5 5 13				Digi-Key	EC1660-PC006C-NO		
	Best   Be	Resistor Res	EQU. EX14, R75 EQJ. 3642, R46, ESO EZ7, R70 EQJ. R212, R213, EQJ. R215, R316 EQJ. R316, R316, R316, EQJ. R316, R316, EQJ. R316, R316, EQJ. R316, R316, EQJ. R316, R316, EQJ. R316, R316, EQJ. EQJ. EQJ. EQJ. EQJ. EQJ. EQJ. EQJ.	5 5 13				Doj-Koy	3c:5604-49209CN0		
	Best   Be	Resistor Res	800 824, 875 823, 842, 845, 850 827, 842, 845, 850 827, 8470, 845, 850 827, 8470, 845, 845, 845, 845, 845, 845, 845, 845	5 5 13				Digi-Key	302560-PQ200CND		
	Best   Be	Resistor State of the Part of the	EQU. EX14, R75 EQJ. 3642, R46, ESO EZ7, R70 EQJ. R212, R213, EQJ. R215, R316 EQJ. R316, R316, R316, EQJ. R316, R316, EQJ. R316, R316, EQJ. R316, R316, EQJ. R316, R316, EQJ. R316, R316, EQJ. EQJ. EQJ. EQJ. EQJ. EQJ. EQJ. EQJ.	5 5 13				Doy-Key	XC3604 4PC00K NO		
	Best 1	Residor Resido	200, 2014, 2079, 2016, 2	4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Dgi-Key	NI 3560-47039C NO		
	Red 1	Resistor  Resist	200 (214, 1972) 200 (214, 1972) 201 (212, 200, 214, 200, 200, 200, 200, 200, 200, 200, 20	4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Dgi Koy	KI560 PC200C NO		
	Best 1	Resistor  Resist	200, 2014, 2079, 2016, 2	4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Dej-Key	NC3560-PO209CND		
	Best 1  Best 1	Resistor Res	200, 2014, 2079, 2016, 2	4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Dopkey	16.15604-91209C-ND		
	Best 1  Best 1	Resistor Res	200 State 1975 201 St	4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
	Best 1 Be	Resistor  Resist	200 State 1975 200 St	4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Dy-Key	SC1560-49009C-ND		
	Best 1 Be	Resistor  Resist	200 State 1975 200 St	4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
	Best 1 Be	Resistor Res	200 State 1975 200 St	4 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							