Item	Qty		Description	Mfg	Part Number	Val/Tol	Pkg	Notes
1	7	C8,C9,C19,C30,C38,C128,C134	Tantalum Capacitor	AVX	TAJB476K010R	47uF	TANB	
2	98	C1,C2,C3,C4,C5,C6,C7,C10,C11,C12,C13,C14, C15,C16,C17,C18,C20,C24,C25,C26,C31,C32, C33,C34,C35,C36,C37,C40,C41,C42,C43,C44, C45,C46,C47,C48,C54,C55,C56,C57,C58,C59, C60,C61,C62,C63,C64,C65,C66,C67,C68,C69, C70,C71,C72,C73,C74,C75,C76,C79,C80,C81, C85,C86,C87,C88,C89,C90,C93,C94,C95,C96, C100,C101,C102,C103,C104,C105,C106,C107, C108,C109,C110,C111,C114,C115,C116,C117, C118,C119,C120,C121,C122,C123,C124,C125, C133,C135	Ceramic Capacitor	AVX	0603YC104KAT2A	0.1uF	0603	
3	1	C49	Ceramic Capacitor	AVX	06035C103KAT2A	0.01uF	0603	
4	2	C92,C91	Ceramic Capacitor	AVX	06035C472KAT2A	0.0047uF	0603	
5	4	C50,C51,C52,C53	Ceramic Capacitor	AVX	06033A101KAT2A	100pF	0603	
6	5	C84,C98,C99,C112,C113	Tantalum Capacitor	AVX	TAJB106K010R	10uF	TANB	
7	4	C126,C129,C130,C131	Tantalum Capacitor	AVX	TAJD107K010R	100uF	TAND	
8	2	C127,C132	Ceramic Capacitor	AVX	06035A680JAT2A	68pF	0603	
9	2	C78,C77	Ceramic Capacitor	AVX	06035A220JAT2A	22pF	0603	
10	0	R7,R26,R65,R70,R73,R74,R76,C97,R112,R117,R 118,R120,R123,R128,R131,R132,R133,R143, R144	DO NOT POPULATE		DNP		0603	Do Not Install
11	16	D3,D4,D5,D6,D7,D8,D9,D10,D11,D12,D13, D14,D15,D16,D17,D18	LED	QUA	QTLP650C-2.TR	Red	1206	
12	2	D2,D1	Diode	ON	MBRA130LT3			
13	1		Fuse	DIGI	WK3066BK-ND	6.3 A	Thru-hole	
14	1	F1	Fuse Holder	DIGI	WK0001-ND	6.3 A	Thru-hole	
15	6	FB1,FB2,FB3,FB4,FB5,FB6	Ferite Bead	MUR	BLM18BB121SN1			
16	1	JP7	Header 0.1"	AMP	2-103186-5	25x2	Thru-hole	
17	3	JP11,JP10,JP1	Header 0.1"	AMP	103186-3	3x2	Thru-hole	
18	3	JP2,JP6,JP13	Header 0.1"	AMP	103185-2	2x1	Thru-hole	
19	2	JP9,JP12	Header 0.1"	AMP	103185-3	3x1	Thru-hole	
20	1	JP3	Header 2mm	MLX	87332-1420	7x2	SMT	
21	2	JP5,JP4	Header 0.1"	AMP	103185-6	6x1	Thru-hole	
22	2	JS2,JS1	PS2	AMP	749265-1	6pin		
23	1	J9	Barrel Socket	SWT	RAPC712		Thru-hole	
24	1	P1	CONNECTOR DB25	AMP	745783-3			
25	1	P2	CONNECTOR DB15	AMP	1-1470250-3			
26	1	P3	CONNECTOR DB9	AMP	747844-6		Thru-hole	
27	1	J6	Integrated RJ45	VAL	J0026D01B			
28	2	J7,J8	AvBus Conn Secondary	AMP	5-179010-6	140-pin	SMT	
29	2	P5,P4	AvBus Conn Primary	AMP	179031-6	140-pin	SMT	
30	1	Q1	N-channel FET	PHA	2N7002		SOT23	

Item	Qty		Description	Mfg	Part Number	Val/Tol	Pkg	Notes
31	1	Q2	NPN BJT	ON	MMBT3904LT		SOT23	
32	1	RP2	Resistor Pack	AVX	CRB3A4E472JR	4.7K		
33	1	RP1	Resistor Pack	AVX	CRB3A4E000T	0		
34	25	R5,R19,R20,R21,R24,R33,R34,R35,R36,R37, R38,R39,R40,R78,R77,R82,R83,R88,R89,R90, R91,R106,R109,R129,R140	Resistor	DAL	CRCW0603102JRT1	1K	0603	
35	14	R48,R49,R52,R55,R62,R63,R79,R84,R93,R94, R95,R115,R119,R121	Resistor	DAL	CRCW06031002FRT1	10K 1%	0603	
36	2	R107,R108	Resistor	DAL	CRCW0603332JRT1	3.3K	0603	
37	15	R4,R6,R9,R10,R30,R64,R68,R69,R72,R75,R105,J T4,JT3,JT2,JT10	Resistor	DAL	CRCW0603472JRT1	4.7K	0603	
38	1	R125	Resistor	DAL	CRCW0603471JRT1	470	0603	
39	1	R102	Resistor	DAL	CRCW0603561JRT1	560	0603	
40	2	R124,R23	Resistor	DAL	CRCW0603681JRT1	680	0603	
41	7	R11,R13,R16,R18,R22,R25,R126	Resistor	DAL	CRCW0603301JRT1	300	0603	
42	5	R3,R12,R14,R15,R17	Resistor	DAL	CRCW0402101JRT7	100	0402	
43	2	R110,R111	Resistor	DAL	CRCW0603240JRT1	24	0603	
44	16	R42,R43,R44,R45,R46,R47,R50,R51,R53,R54, R56,R57,R58,R59,R60,R61	Resistor	DAL	CRCW0603221JRT1	220	0603	
45	6	R1,R2,R8,R80,R81,R127	Resistor	DAL	CRCW060349R9FRT1	49.9 1%	0603	
46	2	R85,R86	Resistor	DAL	CRCW060354R9FRT1	54.9 1%	0603	
47	3	R99,R100,R101	Resistor	DAL	CRCW0603750JRT1	75	0603	
48	1	R92	Resistor	DAL	CRCW06039311FT	9.31K 1%	0603	
49	1	R116	Resistor	DAL	CRCW06031052FRT1	10.5K 1%	0603	
50	29	R27,R29,R31,R32,R41,R66,R67,R71,R87, R96,R97,R98,R103,R104,R113,R114,R122,R130, R134,R135,R138,R139,R142,JT1,JT5,JT6,JT7, JT8,JT9	Resistor	DAL	CRCW0603000RT1	0	0603	Install JT5:2-3, all other 3-pad jumpers (JT) install 1-2
51	1	R141	Resistor	DAL	CRCW12061R8JRT1	1.8 5%	1206	sub - RC3216J1R8CS
52	3	SW1,SW3,SW4	PushButton	BNS	7914J-1-000E		SMT	
53	1	SW2	Dip Switch	AMP	4-435166-9		4x Switch	
54	1	U1	Spartan 3 FPGA	XLX	XC3S400-4FG456C		FG456	
55	1	U2	3 State Buffer	SGS	74V1G125		SOT23	
56	1	U3	3 State Buffer	TIS	SN74AHC125PWR			
57	1	U17		TIS	SN74CBTLV3125D			
58	0	U4	PROM	XLX	XC18V02VQ44C	2Mb	VQ44	Do Not Install
59	1	U5,U25	Platform Flash	XLX	XCF02SV020C	2Mb	SO20	Do Not Install U25
60	2	U19,U20	256Kx16 SRAM	CYP	CY7C1041CV33-15ZC		TSOP44	
61	1	U11	10/100 Ethernet PHY	NSC	DP83846AVHG			
62	1	U12	Video Controller	ANA	ADV7125KST50		ST48	
63	1	U15	RS232	HAR	ICL3222CA		SSOP-20	
64	1	U13	Voltage Comparator	NSC	LMV7235M5		SOT23-5	
65	1	U6	2 Char Display	QUA	MAN6141C			
66	1	U16	OSC_ 4PIN 66.6666MHz	FOX	F4105-666		SMT	
67	1	U14	OSC_ 4PIN 25.175MHz	FOX	JITO2-DC3AF 25.1750 MHz		SMT	
68	1	U18	Dip Socket for Oscillator	AMP	210806-1		Thru Hole	
69	2	U7,U8	Bus Switch	TIS	SN74CBTD16211DGGR			
70	2	U9,U10	Bus Switch	TIS	SN74CBTD1G125DB		SOT23-5	
71	2	U21,U22	Linear Regulator	NSC	LP3966ES-ADJ		TO263	
72	1	U23	Power Module	TIS	PT5401A	3.3V	Module	
73	1	U24	Serial EEPROM 256K Byte	ATM	AT24C256N-10SI-2.7		SO8	
74	1	Y1	Crystal, 25 MHz	FOX	FPX250F-20			
75	1		Circuit Card					
76	1		Assembly & Test					

Item	Qty		Description	Mfg	Part Number	Val/Tol	Pkg	Notes
77	4	JP1 (2) (6) - placeholders, JP4 (2-3), JP11 (1-2)	Shunts	AMP	382811-6 (or equivalent)			
78	1							