

S3E 1600

210-108

PCA
Spartan 3E Starter, 1600 Gate

IC14 IS NO LOAD
R33, R42-44, R86, R99, R100, R117-119, R133-134,
R137-138, R181, R202-210 ARE NO LOAD
C79, C89 ARE NO LOAD
JP4, JP5, J6, J8 J21-27, J29 ARE NO LOAD

Type	PL	Tesse
Revision	A	Mike
Status	U	Doc Location
Date	3/15/2006	Digilent Stock
By	MPH	Cantron Stock

Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference	
		Vendor	Vendor P/N		Mfr Name	Mfr P/N
1	1 each	200-087	DWG D	PCB Spartan 3E		
3	1 each	126-031	PS	IC MC74VHC1G125DFT2, Single Tri-State Buffer, SOT353-5 On Semiconductor MC74VHC1G125DFT2 On Semiconductor MC74VHC1G125DFT2	IC1	
4	1 each	126-061	PS	IC ICL3232CBN, 3.3V RS232 Level shifter, SOIC16 ST3232D Avnet ICL3232CBN Intersil ICL3232CBN	IC2	
5	1 each	126-164	PS	IC XC2C256-6VQG100C Lead free ROHS Xilinx	IC3	
6	1 each	126-178	PS	IC CY7C68013A-100AXC, 100TQFP Arrow Electronics, Inc. CY7C68013A-100AXC	IC4	
7	1 each	126-191	PS	IC 24LC00-I/ST, Serial EEPROM, 128Bit, 2.5V-5V, 8-TSSOP Digi-Key Corp. 24LC00-I/ST-ND	IC5	
8	1 each	126-167	PS	IC LAN83C185, Ethernet Transceiver 10/100Mbps, TQFP-48 SMSC	IC6	
9	1 each	126-122	PS	IC TPS75003RHRLR, Triple Output Regulator, 1.2V 2.5V 3.3V, QFN-20 Digi-Key Corp. 296-17835-1-ND	IC7	
10	1 each	126-169	PS	IC LTC3412EFE 2.5A, 4MHz, Monolithic Synch Step Down Regulator, TSSOP16 Linear Technology LTC3412EFE	IC8	
11	1 each	126-181	PS	IC LTC1844ES5-SD, 250mA Adj Ultra LDO Regulator, SOT23-5 Linear Technology LTC1844ES5	IC9	

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12	1 each	126-185	PS	IC XC3S1600E-4FGG320C Lead free ROHS	IC10	
13	2 each	126-115	PS	IC XCF04S-VO20C ROHS = 2072	IC11, IC13	
14	1 each	126-130	PS	IC DS2432P, 1kb Protected 1-Wire EEPROM with SHA-1 Engine, 6TSOC Avnet	IC12	
16	1 each	126-184	PS	IC M25P16-VME6G, 16Mbit Serial Flash Rom MLP8 Nu Horizons Electronics Corp.	IC15	
				M25P16-VME6G	ST Microelectronics	M25P16-VME6G
17	1 each	163-010	PS	Socket 8 pin DIP E-Call Enterprise Co, Ltd.	IC16	
				100-103-080		
18	1 each	126-032	PS	IC SG-8002JF-MPT, Programmable Oscillator, 50Mhz, JF Digi-Key Corp.	IC17	
				SG-8002JF-PCC-ND	Epson Electronics America, Inc.	SG-8002JF-PWT
19	1 each	126-029	PS	IC XC2C64-7VQG44C, Lead Free II CPLD, VQ44 ROHS	IC18	
20	1 each	126-192	PS	IC LTC1407CMSE-1, Serial 12/14 Bit, 3Msps Simultaneous Sampling ADCs with Shutdown, MSOP-10 PWP Linear Technology	IC19	
				LTC1407ACMSE		
21	1 each	126-172	PS	IC LTC6912CGN-1, Dual Prog Gain Amps w/ Serial Digital Interface, SSOP-16 Linear Technology	IC20	
				LTC6912CGN-1		
22	1 each	126-173	PS	IC LTC2624CGN, Quad Rail to Rail DAC, SSOP-16	IC21	
23	1 each	126-219	PS	IC JS28F128J3D75 Intel Strata Flash Intel	IC22	
24	1 each	126-175	PS	IC MT46V32M16TG-6T TSOPII-66	IC23	
25	1 each	121-005	PS	Diode MBR0520, 500Ma Shotkey power rectifier, SOD-123 Digi-Key Corp.	D1	
				MBR0520LCT-ND	FAIRCHILD SEMICONDUCTOR	MBR0520L

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26	1 each	121-025	PS	Diode Schottky Diode, 20V, 1A Powermite	D2	
		Digi-Key Corp.		MBRM120ET3OSCT-ND	ON Semiconductor	MBRM120ET3
27	1 each	121-026	PS	Diode Surface Mount Schottky Barrier Rectifier DO-214AB	D3	
		General Semiconductor		SS32		
28	1 each	131-019	PS	Inductor CDRH6D38-5R0NC, 5.0uH	L1	
		Harvey King Inc		CDRH6D38-5R0NC	Sumida	CDRH6D38-5R0NC
29	1 each	131-020	PS	Inductor CDRH8D43-150NC, 15uH	L2	
		Harvey King Inc		CDRH8D43-150NC	Sumida	CDRH8D43-150NC
30	1 each	131-029	PS	Inductor 6.8uH, 20% Vishay 2525	L3	
		Mouser Electronics		70-IHLP2525CZER6R8M 1	Vishay/Dale	IHLP2525CZER6R8M01
31	55 each	111-017	PS	Capacitor 0.047uF, ceramic, 10%, 16V, X5R, 0402 Lead Free	C1-2, C19, C86, C92-96, C104-108, C116-120, C128-132, C140-147, C158-165, C177, C179, C181, C183, C195-203, C205, C207	
		Digi-Key Corp.		478-1125-1-ND	AVX Corporation	0402YD473KAT2A
32	38 each	111-010	PS	Capacitor 0.001uf, ceramic, 10%, 50V, X7R, 0402	C3, C74, C97-101, C109-113, C121-125, C133-137, C148-155, C166-173	
		Digi-Key Corp.		311-1036-1-ND	Yageo America	CC0402KRX7R9BB102
33	39 each	111-009	PS	Capacitor 0.1uf, ceramic, 10%, 6.3V, X5R, 0402	C4-7, C10-18, C20-28, C31, C52, C54, C62, C76-78, C83-85, C90-91, C184, C186, C190, C192-193	
		Digi-Key Corp.		445-1266-1-ND	TDK Corporation	C1005X5R0J104K
34	2 each	111-072	PS	Capacitor 12pF, ceramic, 5%, 50V, NP0, 0402	C8-9	
		Digi-Key Corp.		PCC120CQCT-ND	Panasonic - ECG	ECJ-0EC1H120J
35	2 each	111-028	PS	Capacitor 1uF, ceramic, 10%, 6.3V, X5R, 0402	C29, C58	
		Digi-Key Corp.		PCC2393CT-ND	Panasonic - ECG	ECJ-0EB0J105K
36	1 each	111-014	PS	Capacitor 1uF, ceramic, 10%, 16V, X5R, 0603	C30	
		Digi-Key Corp.		490-1536-1-ND	Murata Electronics North America	GRM188R61C105KA93D

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		Vendor	Vendor P/N		Mfr Name	Mfr P/N
37	2 each	111-061	PS	Capacitor 6800pF, ceramic, 10%, 25V, X7R, 0402	C32-33	
		Digi-Key Corp.	PCC1708CT-ND Panasonic-ECG		ECJ-0EB1E682K	
38	1 each	111-064	PS	Capacitor 0.022uF, ceramic, 10%, 16V, X7R, 0402	C34	
		Digi-Key Corp.	478-1118-1-ND AVX Corporation		0402YC223KAT2A	
39	20 each	111-011	PS	Capacitor 0.01uf, ceramic, 10%, 16V, X7R, 0402	C35-38, C43, C45-48, C66, C71, C87, C176, C178, C180, C182, 204, C206, C208, C216	
		Digi-Key Corp.	399-1038-1-ND Kemet		C0402C103K4RACTU	
40	8 each	111-060	PS	Capacitor 0.47uF, ceramic, 10%, 10V, X5R 0402	C39, C49, C102, C114, C126, C138, C156, C174	
		Digi-Key Corp.	490-3264-1-ND Murata Electronics North America		GRM155R61A474KE15D	
41	5 each	111-046	PS	Capacitor 4.7uF, ceramic, 10%, 6.3V, X5R, 0603 Lead Free	C40, C44, C50, C70, C72	
		Digi-Key Corp.	PCC2396CT-ND Panasonic - ECG		ECJ-1VB0J475K	
42	2 each	111-062	PS	Capacitor 27pF, ceramic, 5%, 50V, NP0, 0402	C41-42	
		Digi-Key Corp.	PCC270CQCT-ND Panasonic - ECG		ECJ-0EC1H270J	
43	1 each	111-000	PS	Capacitor 10uF, tantalum, 10%, 16V, B size	C59	
		Digi-Key Corp.	495-2238-1-ND EPCOS Inc.		B45190E3106K209	
44	2 each	111-068	PS	Capacitor 100uF, tantalum, 20% 6.3V, 6032-28 C size, 100 milliohms ESR	C53, C61	
		TTI	TPSC107K006R0075			
45	3 each	111-054	PS	Capacitor 1.5nF, ceramic, 10%, 50V, X7R, 0402	C55, C60, C63	
		Digi-Key Corp.	PCC1723CT-ND Panasonic - ECG		ECJ-0EB1H152K	
46	2 each	111-051	PS	Capacitor 10pF, ceramic, 5%, 50V, NP0, 0402	C56, C81	
		Digi-Key Corp.	BC1195CT-ND BC COMPONENTS		VJ0402A100JXACW1BC	
47	3 each	111-090	PS	Capacitor 100uF, ceramic, 20% 6.3V X5R, 1210	C57, C64, C69	
		Digi-Key Corp.	587-1388-2-ND Taiyo Yuden		JMK325BJ107MY-T	
48	1 each	111-027	PS	Capacitor 22pF, ceramic, 5%, 50V, NP0, 0402	C68	
		Digi-Key Corp.	311-1018-1-ND Yageo America		0402CG220J9B200	

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49	1 each	111-037	PS	Capacitor 470pF, ceramic, 10%, X7R, 0402	C73	
		Digi-Key Corp.	PCC1717CT-ND Panasonic-ECG		ECJ-0EB1H471K	
50	1 each	111-066	PS	Capacitor 56pF, ceramic, 5%, 50V, NP0, 0402	C75	
		Digi-Key Corp.	PCC560CQCT-ND Panasonic - ECG		ECJ-0EC1H560J	
51	7 each	111-067	PS	Capacitor 39pF, ceramic, 5%, 50V, NP0, 0402	C80, C88, C209, C211-214	
		Digi-Key Corp.	PCC390CQCT-ND Panasonic - ECG		ECJ-0EC1H390J	
52	1 each	111-052	PS	Capacitor 15pF, ceramic, 5%, 50V, NP0, 0402	C82	
		Digi-Key Corp.	511-1036-1-ND ROHM		MCH155A150JK	
53	2 each	111-056	PS	Capacitor 220pF, ceramic, 10%, 25V, X7R, 0402	C187-188	
		Digi-Key Corp.	PCC1706CT-ND Panasonic - ECG		ECJ-0EB1E221K	
55	3 each	131-002	PS	Ferrite Bead Wound Bead, 600 ohm, SMD, 0603 MPN= 2944666671	FB1-3	
		Allied Electronics	589-0556 Fair-Rite Products Corp.		2944666671	
56	2 each	121-022	PS	Transistor SI2323DS, P-Channel 20V Mosfet, SOT-23	Q1-2	
		Newark in One	21H8026 VISHAY SILICONIX		SI2323DS-T1	
57	1 each	131-025	PS	Crystal D12AA1 24.000MHz 12 pF, 0.1 milli watt, crystal CSM-7	X1	
		Digi-Key Corp.	XC1001CT-ND			
58	1 each	131-014	PS	Crystal 25MHz, 18pF, CSM-7	X2	
		Digi-Key Corp.	XC745CT-ND			
60	23 each	101-034	PS	Resistor 4.7K ohm, 5%, 1/16W, 0402	R2, R52, R54, R72, R80-82, R94-95, R97-98, R109-111, R120-122, R124-125, R131, R135, R144, R211	
		Digi-Key Corp.	311-4.7KJCT-ND Yageo America		9C04021A4701JLHF3	
61	5 each	101-037	PS	Resistor 270 ohm, 5%, 1/16W, 0402	R3-7	
		Digi-Key Corp.	311-270JCT-ND Yageo America		9C04021A2700JLHF3	
62	2 each	101-100	PS	Resistor 82.5 ohm, 1%, 1/16W, 0402	R8-9	
		Digi-Key Corp.	P82.5LCT-ND Panasonic - ECG		ERJ-2RKF82R5X	

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63	28 each	101-047	PS	Resistor 10K ohm, 5%, 1/16W, 0402 Lead Free	R10-21, R23-28, R31, R41, R87, R90, R102-104, R114-116	
		Digi-Key Corp.		311-10KJRCT-ND	Yageo America	RC0402JR-0710KL
64	1 each	101-101	PS	Resistor 49.9K, 1%, 1/16W, 0402	R22	
		Digi-Key Corp.		RHM49.9KLCT-ND	ROHM	MCR01MZPF4992
65	2 each	101-128	PS	Resistor 15 ohm, 5%, 1/16, 0402	R29-30	
		Digi-Key Corp.		RHM15JCT-ND	ROHM	MCR01MZPJ150
66	3 each	101-038	PS	Resistor 2.2K ohm, 5%, 1/16W, 0402	R32, R34, R62	
		Digi-Key Corp.		311-2.2KJCT-ND	Yageo America	9C04021A2201JLHF3
68	8 each	101-036	PS	Resistor 0.0 ohm shunt, 5%, 1/16W, 0402	R35, R51, R53, R83, R85, R88, R92, R141	
		Digi-Key Corp.		311-0.0JCT-ND	Yageo America	9C04021A0R00JLHF3
69	11 each	101-033	PS	Resistor 390 ohm, 5%, 1/16W, 0402	R36-37, R60, R145-152	
		Digi-Key Corp.		311-390JCT-ND	Yageo America	9C04021A3900JLHF3
70	4 each	101-081	PS	Resistor 49.9 ohm, 1%, 1/16W, 0402	R38-39, R45, R47	
		Digi-Key Corp.		RHM49.9LCT-ND	ROHM	MCR01MZPF49R9
71	7 each	101-102	PS	Resistor 10 ohm, 5%, 1/16W, 0402	R40, R84, R89, R91, R105, R112, R127	
		Digi-Key Corp.		RHM10JCT-ND	ROHM	MCR01MZPJ100
72	5 each	101-103	PS	Resistor 56.2 ohm, 1%, 1/16W, 0402	R46, R48, R50, R55, R96	
		Digi-Key Corp.		P56.2LCT-ND	Panasonic - ECG	ERJ-2RKF56R2X
73	1 each	101-104	PS	Resistor 12.4K ohm, 1%, 1/16W, 0402	R56	
		Digi-Key Corp.		P12.4KLCT-ND	Panasonic - ECG	ERJ-2RKF1242X
74	2 each	101-094	PS	Resistor 0.047 ohm, 5%, 1/10W, 0603	R57, R64	
		Digi-Key Corp.		P47NJCT-ND	Panasonic - ECG	ERJ-L03KJ47MV
75	2 each	101-078	PS	Resistor 619K ohm, 1%, 1/16W, 0402	R58, R61	
		Digi-Key Corp.		P619KLCT-ND	Panasonic - ECG	ERJ-2RKF6193X
76	1 each	101-079	PS	Resistor 365K ohm, 1%, 1/16W, 0402	R59	
		Digi-Key Corp.		P365KLCT-ND	Panasonic - ECG	ERJ-2RKF3653X

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		Vendor	Vendor P/N		Mfr Name	Mfr P/N
77	1 each	101-080	PS	Resistor 154K ohm, 1%, 1/16W, 0402	R63	
		Digi-Key Corp.	P154KLCT-ND Panasonic - ECG		ERJ-2RKF1543X	
78	15 each	101-035	PS	Resistor 100 ohm, 5%, 1/16W, 0402 Lead Free	R65, R67, R76-78, R126, R212-220	
		Digi-Key Corp.	311-100JRCT-ND Yageo America		RC0402JR-07100RL	
79	1 each	101-105	PS	Resistor 5.1 ohm, 5%, 1/16W, 0402	R66	
		Digi-Key Corp.	RHM5.1JCT-ND ROHM		MCR01MZPJ5R1	
80	1 each	101-046	PS	Resistor 100K ohm, 5%, , 1/16W, 0402	R68	
		Digi-Key Corp.	311-100KJCT-ND Yageo America		9C04021A1003JLHF3	
81	1 each	101-106	PS	Resistor 4.7M ohm, 5%, 1/8W, 0805	R69	
		Digi-Key Corp.	RHM4.7MACT-ND ROHM		MCR10EZJH475	
82	1 each	101-123	PS	Resistor 300 ohm, 5%, 1/16W, 0402	R70	
		Digi-Key Corp.	RHM300JCT-ND ROHM		MCR01MZPJ301	
83	1 each	101-107	PS	Resistor 392K ohm, 1%, 1/16W, 0402	R71	
		Digi-Key Corp.	P392KLCT-ND Panasonic - ECG		ERJ-2RKF3923X	
85	2 each	101-051	PS	Resistor 680 ohm, 5%, 1/16W, 0402	R73, R101	
		Digi-Key Corp.	RHM680JCT-ND ROHM		MCR01MZPJ681	
86	1 each	101-109	PS	Resistor 309K ohm, 1%, 1/16, 0402	R74	
		Digi-Key Corp.	P309KLCT-ND Panasonic - ECG		ERJ-2RKF3093X	
87	1 each	101-111	PS	Resistor 182K ohm, 1%, 1/16W, 0402	R75	
		Digi-Key Corp.	P182KLCT-ND Panasonic - ECG		ERJ-2RKF1823X	
88	1 each	101-112	PS	Resistor 330 ohm, 5%, 1/16, 0402	R79	
		Digi-Key Corp.	RHM330JCT-ND ROHM		MCR01MZPJ331	
89	1 each	101-114	PS	Resistor 150 ohm, 1%, 1/16W, 0402	R93	
		Digi-Key Corp.	RHM150LCT-ND ROHM		MCR01MZPF1500	
90	3 each	101-045	PS	Resistor 200 ohm, 5%, 1/16W, 0402	R106-108	
		Digi-Key Corp.	311-200JCT-ND Yageo America		9C04021A2000JLHF3	

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92	14 each	101-116	PS	Resistor 45.3 ohm, 1%, 1/16W, 0402	R113, R175-178, R180, R182, R195-201	
		Digi-Key Corp.	P45.3LCT-ND		Panasonic - ECG	ERJ-2RKF45R3X
93	2 each	101-052	PS	Resistor 470 ohm, 5%, 1/16W, 0402	R123, R128	
		Digi-Key Corp.	RHM470JCT-ND		ROHM	MCR01MZPJ471
94	3 each	101-054	PS	Resistor 1.0K ohm, 1%, 1/16W, 0402	R129, R132, 143	
		Digi-Key Corp.	RHM1.00KLCT-ND		ROHM	MCR01MZPF1001
95	6 each	101-071	PS	Resistor 100 ohm, 1%, 1/16W, 0402	R130, R154-158	
		Digi-Key Corp.	RHM100LCT-ND		ROHM	MCR01MZPF1000
96	1 each	101-130	PS	Resistor 10 ohm, 1%, 1/16W, 0402	R136	
		Digi-Key Corp.	RHM10.0LCT-ND		ROHM	MCR01MZPF10R0
97	4 each	101-025	PS	Resistor 0 ohm shunt, 5%, 1/16W, 0603	R1, R49, R139-140	
		Digi-Key Corp.	311-0.0GCT-ND		Yageo America	9C06031A0R00JLHFT
98	1 each	101-059	PS	Resistor 10K ohm, 1%, 1/16W, 0402	R142	
		Digi-Key Corp.	311-10.0KLCT-ND		Yageo America	9C04021A1002FLHF3
100	1 each	101-057	PS	Resistor 20K ohm, 1%, 1/16W, 0402	R153	
		Digi-Key Corp.	311-20.0KLCT-ND		Yageo America	9C04021A2002FLHF3
101	29 each	101-115	PS	Resistor 75 ohm, 1%, 1/16W, 0402	R159-174, R179, R183-194	
		Digi-Key Corp.	311-75.0LCT-ND		Yageo America	9C04021A75R0FLHF3
102	3 each	163-044	PS	Connector Header, 1x6, female, RA	J1-2, J4	
		E-Call Enterprise Co, Ltd.	161-220-060			
103	1 each	163-076	PS	Connector FX2-100P-1.27DS Hirose FX connector, header Right Angle	J3	
		Digi-Key Corp.	H4311-ND		Hirose Electronics	FX2-100P-1.27DS
104	4 each	163-017	PS	Connector Header, 1x6, male, straight	J5, J7, J12, J28	
		E-Call Enterprise Co, Ltd.	125-203-060			

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105	1 each	163-005	PS	Connector DB-9, female, PC mount, RA	J9	
		E-Call Enterprise Co, Ltd.	103-312-092			
106	1 each	163-029	PS	Connector DB-9, Male, PC mount, RA	J10	
		E-Call Enterprise Co, Ltd.	103-312-092			
107	1 each	163-041	PS	Connector Header, 1x4, male, straight	J11	
108	1 each	163-006	PS	Connector Mini-Din, 6 pin, PC mount, PS/2 keyboard	J14	
		E-Call Enterprise Co, Ltd.	158-130-062			
109	1 each	163-007	PS	Connector DB15HD, female, PC mount, RA, VGA	J15	
		E-Call Enterprise Co, Ltd.	167-303-152			
110	1 each	163-094	PS	Connector Header, 2x8, male, straight	J16	
111	1 each	163-095	PS	Connector Vertical Jack PCB mount SMA 50 ohms	J17	
		Mouser Electronics	538-73391-0060	Molex	73391-0060	
112	1 each	163-058	PS	Connector AMP 787780 USB B-style Connector	J18	
		Digi-Key Corp.	787780-1-ND	AMP/Tyco Electronics	787780-1	
113	1 each	163-088	PS	Connector HFJ11-2450E-L11, Ethernet RJ45 Jack	J19	
		Kensington	HFJ11-2450E-L11			
114	1 each	163-009	PS	Connector Coax Power, 5.5mm x 2.1mm, PC mount, RA	J20	
		E-Call Enterprise Co, Ltd.	501-500-012			
116	8 each	163-028	PS	Connector Header, 1x2 male, straight	J31, JP1-3, JP6-8, JP10	
		E-Call Enterprise Co, Ltd.	125-203-020			
117	1 each	163-035	PS	Connector Header, 1x3, male, straight	JP9	
		E-Call Enterprise Co, Ltd.	125-203-030			
118	1 each	163-018	PS	Connector Header, 2x3, male, straight	J30	
		E-Call Enterprise Co, Ltd.	126-103-060			
119	1 each	121-007	PS	LED Yellow, SMD, 0603 Hi Brite	LD-D	
		Wei Dien Int'l Trading Co., Ltd.	WDM-1608YW-02			

S3E 1600

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PCA
Spartan 3E Starter, 1600 Gate

Rev A
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Item	Qty Unit	Part Number	Type Rev	Title Detail	Reference	
		Vendor	Vendor P/N		Mfr Name	Mfr P/N
120	1 each	121-028	PS	LED Green, SMD, 0402, Hi Brite	LD-G	
121	1 each	121-001	PS	LED Red, SMD, 0603 Hi Brite	LD-P	
		Wei Dien Int'l Trading Co., Ltd.	WDM-1608URW-02			
122	1 each	121-034	PS	LED Red, SMD, 0402, Hi Brite	LD-R	
123	8 each	121-006	PS	LED Green, SMD, 0603 Hi Brite	LD0-7	
		Wei Dien Int'l Trading Co., Ltd.	WDM-1608GW-02			
124	1 each	153-004	PS	Encoder Mechanical rotary encoder w/push button	ROT1	
		CUI	AEC11BR1E-15FD1-20C			
125	5 each	153-000	PS	Switch SPST, momentary push button, PC mount	BTN1, N, S, E, W	
		E-Call Enterprise Co, Ltd.	203-125-042			
126	5 each	153-001	PS	Switch SPDT, slide, PC mount	SW0-3, SWP	
		E-Call Enterprise Co, Ltd.	203-419-030			
127	6 each	170-003	PS	Mounting Rubber feet, SJ-5303	F1-6	
		Digi-Key Corp.	SJ5303-7-ND			
128	8 each	163-042	PS	Jumper Shorting Block, 100mil spacing		
		E-Call Enterprise Co, Ltd.	146-210-020			
129	1 each	710-000	PS	Packaging Bag, anti-static, 8"x10"		
		ULINE	S-1315	ULINE	S-1315	
130	1 each	153-009	PS	Switch Knob, White Line K650DRNP12000-03	ROT1	
		Elma ELelectronics	K650DRNP12000-03			
132	11 each	111-059	PS	Capacitor 10uF, ceramic, 20%, 6.3V, X5R 0805	C51, C65, C103, C115, C127, C139, C157, C175, C185, C189, C215	
		Digi-Key Corp.	587-1304-2-ND	Panasonic - ECG	ECJ-2FB0J106M	
133	1 each	111-093	PS	Capacitor 22uF, ceramic, 20%, 6.3V, X5R, 0805	C67	
		Digi-Key Corp.	587-1305-1-ND	Taiyo Yuden	JMK212BJ226MG-T	
134	1 each	163-105	PS	Connector Header, 1x16 100mil spacing, female straight	J13	
		Digi-Key Corp.	S7049-ND	Sullins Electronics Group	PPPC161LFBN	

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		Vendor	Vendor P/N		Mfr Name	Mfr P/N
135	1 each	125-055 Digi-Key Corp.	PS	IC CMOS oscillator, 66.67Mhz, DIP8 SGR-8002DC-PCC-ND Epson Electronics America Inc	IC16 SG-8002DC-MPTROHS	