

Revised: Wednesday, May 15, 2013

Bill Of Materials November 20,2013

Item	Quantity	Reference	Part	Manufacturer	Manufacturer Part Num
1	40	CN1,C1,CN2,C2,CN3,C11,C12,C13,C17,C18,C19,C23,C24,C26,C32,C33,C34,C35,C37,C44,C45,C48,C49,C53,C54,C57,C61,C62,C63,C65,C67,C70,C71,C74,C75,C79,C82,C84,C99,C105	0.1uF		
2	1	C3	4.7nF		
3	5	C4,C5,C6,C7,C8	2.2nF		
4	2	C9,C10	0.47uF		
5	20	C14,C15,C16,C20,C21,C22,C28,C29,C30,C31,C36,C41,C42,C46,C47,C51,C52,C56,C64,C78	10nF		
6	14	C25,C27,C38,C39,C40,C43,C50,C55,C58,C66,C72,C76,C81,C104	1uF		
7	13	C59,C68,C73,C77,C80,C93,C96,C97,C101,C103,C112,C114,C115	10uF		
8	4	C60,C69,C83,C102	47uF		
9	5	C85,C86,C87,C88,C89	22uF		
10	4	C90,C91,C94,C107	1uF		
11	2	C92,C100	2.2n		
12	2	C95,C108	1.8n		
13	1	C98	4.7uF		
14	1	C106	0.01uF		
15	4	C109,C110,C111,C113	0.1uF		
16	3	D2,D13,D18	LED		
17	2	D3,D12	B360A, SMA, DIODES	DIODES	B360A-13-F
18	10	D4,D5,D6,D7,D8,D9,D10,D11,D16,D17	Green_LED 0603		
19	2	D14,D15	TPD6E001RSER, ESD	TI	TPD6E001RSER
20	1	D19	BAT54C/SOT23		
21	3	FB1,FB3,FB4	BLM18PG600SN1D		
22	2	J1,J4	PIN_HEADER_20x2_2.54mm		
23	1	J2	MEC6-140_CARD		MEC6-140-XX-XX-D-RAX
24	1	J7	5X2_2.54mm_Header		
25	1	J8	Power Jack, 4.5mm_1.3mm		
26	1	J10	mini USB connector		
27	1	J11	PIN_HEADER_2x2_2.54mm		
28	3	R2,J12,R56	NC		
29	4	L1,L2,L3,L4	3.3uH, 2.9A		
30	1	P1	5CEFA2F23_v2	Altera	5CEFA2F23C8N
31	1	P2	microSD	Cen Link Co., Ltd	ZM90-15000-0AR1
32	1	P3	MAX V 5M80ZE64	Altera	5M80ZE64C5N
33	1	Q1	MMBT4401LT1, NPN, SOT-23	ON Semi	MMBT4401LT1
34	10	R1,R38,R39,R40,R41,R42,R48,R49,R71,R72	4.7K		
35	3	R3,R30,R106	100R_1%		
36	23	R4,R5,R6,R7,R8,R9,R10,R11,R12,R13,R14,R15,R16,R17,R18,R19,R20,R21,R22,R23,R24,R25,R27	56R		
37	1	R26		240	
38	4	R28,R29,R55,R64	0R		
39	26	R31,R32,R34,R35,R36,R37,R45,R46,R50,R51,R52,R53,R54,R59,R61,R66,R67,R68,R78,R79,R83,R86,R87,R88,R92,R93	10K		
40	5	R43,R44,R47,R58,R65	1K		
41	1	R57	2K_1%		
42	1	R60	22R		
43	10	R62,R63,R69,R70,R73,R74,R75,R76,R77,R80	330R		
44	2	R81,R100	10K_1%		
45	1	R82	26K_1%		
46	1	R84	8.87K_1%		
47	3	R85,R99,R104	10.2K_1%		
48	2	R89,R96	14.9K		

49	1	R90	31.6K_1%		
50	1	R91	680R		
51	1	R94	2.2K		
52	2	R95,R105	100K		
53	2	R97,R103	47K		
54	1	R98	21.5K_1%		
55	1	R101	3.75K_1%		
56	1	R102	21K_1%		
57	1	SW3	SW DIP-4, 2.54mm		
58	2	S1,S2	PB Switch	Dawning Precision Co.	TS-A02SA-2-S100
76	1	U1	DDR3 SDRAM, MT41J64M16JT-15E	Micron	MT41J64M16LA-15E
77	1	U2	EPCS16SI8N	Altera	MX25L1606EM2I-12G
78	1	U3	FT245RQ	FTDI	FT245RQ-Tray
79	1	U4	AT24C01BN-SH-T, 8S1, SOIC, SMD, A	Atmel	AT24C01BN-SH-T
80	1	U5	Dual NFETs	IR	IRLHS6276PbF
81	1	U6	ADP5052 (PACKWOOD)	ADI	ADP5052ACPZ-R7
82	1	U7	TPS51100DGQ	TI	TPS51100DGQ
83	1	Y1	SiT9201, SOT23, 50MHz, 1.8V	SiTime	SiT9201AC-S3-18E-50.000000Y
84	1	Y2	NC, 2.5V	SiTime	SiT9201AC-S3-25E-50.000000Y
85	1	Y3	SiT9201, SOT23, 24MHz, 2.5V	SiTime	SiT9201AC-S3-25E-24.000000Y