

A314 Bill of Materials

Amount	Part	Description	Mfg. Part #	DigiKey Part #
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Resistors				
1	R1	RES SMD 10.2K OHM 1% 1/8W 0805	RC0805FR-0710K2L	311-10.2KCRCT-ND
1	R2	RES SMD 34K OHM 1% 1/8W 0805	RC0805FR-0734KL	311-34.0KCRCT-ND
4	R3,4,17,18	RES 3.9K OHM 5% 1/8W 0805	RMCF0805JT3K90	RMCF0805JT3K90CT-ND
6	R5,6,7,8,9,19	RES 10K OHM 5% 1/8W 0805	RMCF0805JT10K0	RMCF0805JT10K0CT-ND
2	R10,16	RES SMD 1K OHM 5% 1/8W 0805	RC0805JR-071KL	311-1.0KARCT-ND
3	R11,13,14	RES ARRAY 4 RES 47 OHM 1206	EXB-V8V470JV	Y4470CT-ND
2	R12,R15	RES 47 OHM 5% 1/8W 0805	RMCF0805JT47R0	RMCF0805JT47R0CT-ND
1	R20	RES SMD 143K OHM 1% 1/8W 0805	RC0805FR-07143KL	311-143KCRCT-ND
1	R21	RES SMD 1.33M OHM 1% 1/8W 0805	RC0805FR-071M33L	311-1.33MCRCT-ND

Capacitors				
7	C2,5,6,10,16,17,18	CAP CER 22UF 25V X5R 1812	C4532X5R1E226M250KA	445-1444-1-ND
42	C generic	CAP CER 0.1UF 25V X7R 0805	CL21B104KACNNNC	1276-1099-1-ND
4	C50,51,52,53	CAP CER 33UF 4V X5R 0805	GRM21BR60G336ME15L	490-16621-1-ND

Inductors				
1	L1	FIXED IND 1UH 4.8A 14 MOHM SMD	744062001	732-3670-1-ND
1	L2	FIXED IND 2.2UH 6.2A 15 MOHM SMD	7440650022	732-1055-1-ND

Connectors & other HW				
1	CNY1	CONN RCPT 56POS 0.1 GOLD PCB R/A	SSW-128-02-S-D-RA	SAM1218-28-ND
1	RP1	CONN RCPT 40POS 0.1 GOLD PCB	76342-320LF	609-5996-ND
1	JTAG	CONN HEADER VERT 10POS 2.54MM	TSW-105-07-F-D	SAM8999-ND
1	INT2	CONN HEADER VERT 1POS	PRPC001SAAN-RC	S1011EC-01-ND
1	BAT1	BATTERY RETAINER COIN PC PIN	BAT-HLD-001-THM	BAT-HLD-001-THM-ND

Integrated circuits				
3	IC1,2,3	IC SWITCH BUS 16BIT FET 48-SSOP	SN74CBT16244CDLR	296-19177-1-ND
1	IC4	IC SRAM 8M PARALLEL 44TSOP II	IS61WV51216BLL-10TLI	706-1107-ND
1	IC5	IC FPGA 101 I/O 144EQFP	10M08SCE144C8G	544-3070-ND
1	IC6	IC RTC CLK/CALENDAR I2C 8-SOIC	DS3231MZ/V+	DS3231MZ/V+-ND
1	IC7	IC REG BUCK ADJ 5A TSOT23-6	TPS565208DDCR	296-48755-1-ND
1	IC8	IC CLK MULTIPLIER PLL 8-SOIC	NB3N502DG	NB3N502DGOS-ND
1	IC9	IC REG LINEAR 4.3V 400MA SOT23-5	TPS73643DBVR	296-17498-1-ND
1	IC10	IC EEPROM 512K I2C 1MHZ 8SOIC	CAT24C512WI-GT3	CAT24C512WI-GT3OSCT-ND
1	IC11	IC REG BCK BST ADJ 3.5A 14VSON	TPS63020DSJR	296-36491-1-ND