

shieldBuddy for Arduino Revised: 10/03/2015  
15081801-01 Revision: 1.5

krtkl inc.  
350 Townsend Street  
Suite 301A  
San Francisco, CA 94107  
+1 415 857 4857

Bill Of Materials      October 3,2015      18:27:13

Item	Qty	Reference	Description	Manufacturer	Part Number
1	26	C1, C2, C3, C6, C7, C11, C12, C16, C17, C20, C21, C22, C23, C24, C25, C26, C27, C28, C30, C33, C34, C36, C37, C38, C39, C40	Capacitor, Ceramic, 0.1uF 25V 10% X7R, SMD 0603	Samsung	CL10B104KA8NNNC
2	8	C4, C5, C9, C10, C14, C15, C18, C19	Capacitor, Ceramic, 10uF 25V 10% X7R, SMD 1210	Samsung	CL32B106KAULNNE
3	2	C8, C13	Capacitor, Ceramic, 22pF 50V 5% NPO, SMD 0603	Samsung	CL10C220JB8NNNC
4	3	C29, C31, C32	Capacitor, Ceramic, 1.0uF 25V 10% X5R, SMD 0603	Samsung	CL10A105KA8NNNC
5	1	C35	Capacitor, Ceramic, 10uF 6.3V 10% X5R, SMD 0805	Samsung	CL21A106KQNNNE
6	1	D1	Diode, Schottky, 30V 2A, SMA	Diodes, Inc.	B230A-13-F
7	1	FB1	Ferrite Bead, 220 ohms 25% @ 100MHz, 0.6A max, SMD 0603	Laird	HZ0603A222R-10
8	1	FB2	Ferrite Bead, 120 ohms 25% @ 100MHz, 2A max, SMD 0603	Vishay Dale	ILHB0603ER121V
9	1	JP1	Conn, Header, 2pos, 0.1" Vert, Gold Flash	Samtec	TSW-102-07-F-S
10	1	JP2	Conn, Header, 3-pos, 0.1" Vert, Gold Flash	Samtec	TSW-103-07-F-S
11	1	JP3	Conn, Header, 6pin, 3posx2row, 0.05" Vert TH	Samtec	TSW-103-07-F-D
12	1	J2	Conn, Jack, 2-pos, 5.5mm OD x 2.5mm ID DC Power, 8A T/H RA	CUI Inc	PJ-063BH
13	1	J3	Conn, Receptacle, USB Micro-B 5Pos, Surface Mount, RA/Horizontal	FCI	10103594-0001LF
14	1	L1	Inductor, 3.3uH 20% 38.3mohm 2.8A, Shielded, SMD 4mmx4mmx2.1mm	Coilcraft	XFL4020-332MEC
15	1	L2	Inductor, 4.7uH 20% 57.4mohm 2.5A, Shielded, SMD 4mmx4mmx2.1mm	Coilcraft	XFL4020-472MEC
16	1	P1	Conn, Header, 40-pin, 20-posx2-row, 0.05" Vert Shrouded, TH	Samtec	TFM-120-01-F-D-A
17	3	P4, P5, P7	Conn, Receptacle, 8pos, 0.1" Vert, Gold Flash	Samtec	SSW-108-01-F-S
18	1	P6	Conn, Receptacle, 8pos, 0.1" Right Angle, Gold Flash	Samtec	SSW-108-02-F-S-RA
19	1	P8	Conn, Receptacle, 10pos, 0.1" Vert, Gold Flash	Samtec	SSW-110-01-F-S
20	2	Q1, Q2	MOSFET, P-CH, 20V 2A, SOT-23-	Fairchild	FDN340P
21	1	Q3	MOSFET, N-CH, Dual, 20V 540mA, 0.9ohm max @VGS=1.8V,	Diodes Incorporated	DMN2004DMK-7
22	6	RP1, RP2, RP3, RP4, RP5, RP6	Resistor Pack, 10K ohm 5% x4 Individual, 1/16W per resistor, Convex, SMD 1206	Yageo	YC164-JR-0710KL
23	1	RP7	Resistor Pack, 2.0K ohm 5% x4 Individual, 1/16W per resistor, Convex, SMD 1206	Yageo	YC164-JR-072KL
24	1	R1	Resistor, 20.0K ohm 1% 1/10W, SMD 0603	Samsung	RC1608F203CS
25	7	R2, R6, R11, R14, R20, R21, R23	Resistor, 100K ohm 1% 1/10W, SMD 0603	Samsung	RC1608F104CS
26	5	R3, R4, R5, R12, R13	Resistor, 10.0K ohm 1% 1/10W, SMD 0603	Samsung	RC1608F103CS
27	1	R7	Resistor, 73.2K ohm 0.1% 1/8W, SMD 0805	Yageo	RT0805BRD0773K2L
28	2	R8, R9	Resistor, 22.1K ohm 0.1% 1/8W, SMD 0805	Yageo	RT0805BRD0722K1L
29	1	R10	Resistor, 124K ohm 0.1% 1/8W, SMD 0805	Yageo	RT0805BRD07124KL
30	3	R15, R18, R19	Resistor, 0ohms 1/10W, SMD	Samsung	RC1608J000CS
31	2	R16, R17	Resistor, Do Not Install, 1/10W, SMD 0603		
32	2	R22, R24	Resistor, 32.4K ohm 0.1% 1/8W, SMD 0805	Yageo	RT0805BRD0732K4L
33	1	U1	IC, Dual RRIO 1.0 MHz Op Amp, VSSOP-8	Texas Instruments	LMV358IDGKR
34	1	U2	IC, Regulator, Dual Buck, Sync, Adj Vout 2A/3A, 16-HTSSOP	Texas Instruments	TPS542941PWPR

35	3	U3, U4, U5	IC, 8bit Bi-directional Voltage-Level Translator, TSSOP-20	Texas Instruments	TXS0108EPWR
36	1	U6	IC, DAC, Dual Output, 12bit, MSOP-10	Texas Instruments	DAC7563SDGSR
37	1	U7	IC, ADC, 12 Ch, single ended, 12 bit, 1 MSPS, TSSOP-38	Texas Instruments	ADS7952QDBTRQ1
38	2	U8, U9	IC, Op-Amp, ADC Driver, SOT23-6	Texas Instruments	OPA625IDBVT
39	2	U10, U11	IC, Power Distribution Switch, Adjustable Current Limited, SOT23-6	Texas Instruments	TPS2552DBVR
40	1	U12	IC, EEPROM, 256x8bit, I2C 400KHz, TSOT23-5	ON Semiconductor	CAT24AA02TDI-GT3