

Health Apps; Kilby-Lab, Texas Instruments Revised: Friday, October 19, 2012

SSH-001 Revision: 0.1

Kilby Lab, Texas Instruments Inc.

Dallas, Texas

USA

Bill Of Materials October 21,2012 20:30:55

All the resistors should be 1% accuracy; the power rate for 0805 size is 0.125w, and for 0603 size is 0.1w; unless otherwise specified
All the capacitors should be 10V/+ -10%, unless otherwise specified.

Item	Quantity	Reference	Part	Description	Manufacture	Manufacture PN	PCB Footprint	Installation
1	1	BT1	CR2032 battery holder	20mm, 2032 cell batter holder	Linx Technologies	BAT-HLD-001	BAT_HLD_001	Y
2	5	C1,C7,C23,C33,C34	1uF	CAP	TBD	TBD		805 Y
3	13	C2,C3,C16,C19,C20,C21,C28,C31,C44,C47,C50,C53,C56	0.1uF	CAP	TBD	TBD		603 Y
4	6	C4,C8,C12,C17,C18,C24	2.2nF	CAP	TBD	TBD		603 Y
5	1	C5	47pF(no-pop)	CAP	TBD	TBD		603 N
6	3	C6, C27, C43	1.5nF	CAP	TBD	TBD		603 Y
7	6	C9,C10,C13,C14,C25,C26	47pF	CAP	TBD	TBD		603 Y
8	2	C11,C15	4.7nF	CAP	TBD	TBD		603 Y
9	12	C22,C29,C32,C36,C37,C39,C40,C45,C48,C51,C54,C55	10uF	CAP	TBD	TBD		805 Y
10	1	C30	1nF(no-pop)	CAP	TBD	TBD		603 N
11	1	C35	100uF	CAP CER 100UF 6.3V Y5V 1210	TDK	C3225Y5V0J107Z		1210 Y
12	3	C38,C46,C49	22pF	CAP	TBD	TBD		603 Y
13	2	C41,C42	0.22uF	CAP	TBD	TBD		603 Y
14	1	C52	0.47uF	CAP	TBD	TBD		603 Y
15	1	D1	LED	Yellow SMD LED	Kingbright	APT2012SYCK		805 Y
16	1	J1	HEADER 4X2 (no-pop)	0.1', 4x2 header	TBD	TBD	HDR_4x2_TH_100	N
17	7	J2,J3,J4,J5,J9,J10,J12	HEADER 2X1	0.1', 2x1 header	Sullins	PEC36SAAN	HDR_1x2_TH_100	Y
18	1	J6	CON4 (no-pop)	4-pin/050-Grid/Right-Angle/Single-row Header	Mill-Max	850-10-004-20-001000	HDR_1X4_RA_50MILS	N
19	1	J7	HEADER 5X2 (no-pop)	1.27mm pitch 5x2 header	Harwin	M50-3600542	M50-3600542	N
20	1	J8	CON6	10u'; 6-pin header	Mill-Max	850-10-006-20-001000	HDR_1X6_RA_50MILS	Y
21	1	J11	CON4	4-pin/050-Grid/Right-Angle/Single-row Header	Mill-Max	850-10-004-20-001000	HDR_1X4_RA_50MILS	Y
22	1	J13	DM3BT-DSF-PEJS	MicroSD card connector	Hirose Electric	DM3BT-DSF-PEJS	microSD_8pin	Y
23	1	L1	4.7uH	Power Inductors 1008 4.7uH 1.1A 20%	Murata	LQM2HPN4R7MG0L		1008 Y
24	1	L2	2.2uH	Power Inductors 2.2uH 1.2A	TDK	MLP2520S2R2MT		1008 Y
25	6	R1,R38,R46,R74,R78,R85	0	0.25W/RES	TBD	TBD		1206 Y
26	9	R2,R3,R5,R6,R8,R35,R71,R76,R82	10K(no-pop)	RES	TBD	TBD		603 N
27	10	R4,R39,R47,R79,R81,R100,R102,R113,R114,R115	47K	RES	TBD	TBD		603 Y
28	9	R7,R20,R40,R45,R62,R103,R107,R109,R120	27K	RES	TBD	TBD		603 Y
29	30	R9,R11,R17,R18,R19,R25,R32,R34,R48,R49,R51,R54,R56,R57,R58,R59,R61,R64,R67,R68,R70,R72,R73,R80,R89,R94,R101,R106,R110,R97	0	RES	TBD	TBD		603 Y
30	17	R10,R24,R36,R50,R52,R53,R55,R65,R66,R86,R90,R91,R92,R98,R99,R105,R112	0(no-pop)	RES	TBD	TBD		603 N
31	2	R12,R30	40.2K	RES	TBD	TBD		603 Y
32	1	R13	1M	RES	TBD	TBD		603 Y
33	2	R14,R83	100K	RES	TBD	TBD		603 Y

34	1	R15	100K(no-pop)	RES	TBD	TBD		603	N
35	8	R16,R21,R26,R29,R33,R37,R41,R44	10M	RES	TBD	TBD		603	Y
36	6	R22,R23,R27,R28,R42,R43	51K	RES	TBD	TBD		603	Y
37	1	R31	10K	RES	TBD	TBD		603	Y
38	1	R60		0 RES	TBD	TBD		805	Y
39	1	R63	2.7K(no-pop)	RES	TBD	TBD		603	N
40	1	R69	0(no-pop)	RES	TBD	TBD		805	N
41	3	R75,R77,R84	0(no-pop)	0.25W/RES	TBD	TBD		1206	N
42	1	R87	576K	RES	TBD	TBD		603	Y
43	1	R88	182K	RES	TBD	TBD		603	Y
44	2	R93,R104		750 RES	TBD	TBD		603	Y
45	1	R95	27K(no-pop)	RES	TBD	TBD		603	N
46	1	R96	1.5K	RES	TBD	TBD		603	Y
47	3	R108,R111,R119	150K	RES	TBD	TBD		603	Y
48	1	R116	1K	RES	TBD	TBD		603	Y
49	2	R117,R118	10M(no-pop)	RES	TBD	TBD		603	N
50	1	R121	47K(no-pop)	RES	TBD	TBD		603	N
51	1	SW1	NK236WH	90 degree slide switcher	APEM Components, LLC	NK236WH	SW_SPDT_3P_100_R		Y
52	1	SW2	PB	3.9x2.9mm Compact switch	ALPS	SKRKAEE010	SWT_SKRKAEE010		Y
53	1	SW3	SW DIP-2	2-bits DIP switch	C&K	TDA02H0SB1	TDA02H0SB		Y
54	2	TP2,TP3	TEST POINT	Test Point Green	Keystone		5116 TP_ORANGE_MINI		Y
55	1	TP4	TEST POINT	Test Point Orange	Keystone		5003 TP_ORANGE_MINI		Y
56	1	TP5	TEST POINT	Test Point Yellow	Keystone		5004 TP_ORANGE_MINI		Y
57	1	TP6	TEST POINT	Test Point Red	Keystone		5000 TP_ORANGE_MINI		Y
58	6	U1,U6,U9,U12,U15,U18	TPS22901YFPR	IC	TI	TPS22901YFPR	DSBGA_4_YFP		Y
59	1	U2	LIS3DH	3D Accelerometer	ST	LIS3DH	LGA-16		Y
60	2	U3,U7	SN74AUP1G04DCKR	Inverter gate	TI	SN74AUP1G04DCKR	SC70-5		Y
61	2	U4,U8	TS5A23167DCUR	IC	TI	TS5A23167DCUR	VSSOP_8_DCU		Y
62	1	U5	ADS1292	2-Channel AFE for biopotential measurements	TI	ADS1292RIPBSR	TQFP-32		Y
63	1	U10	nBlue	Bluetooth Module	nBlue	BR-LE4.0-D2	MODULE_BR_LE4_S2A		Y
64	1	U11	TPS72730DSET	IC	TI	TPS72730DSET	WSOP_6_DSE		Y
65	1	U13	TPS61221DCKT	IC	TI	TPS61221DCKT	SC70-6		Y
66	1	U14	TPS62260DRV	Power IC	TI	TPS62260DRV	PSOP_6_THERMAL_DRV		Y
67	1	U16	W25Q128FV	3.3V, 16 MBytes SPI flash	Winbond	W25Q128FV	SOIC_8		Y
68	1	U17	MSP430F5528IRGC	Microprocessor	TI	MSP430F5528IRGC	PQFP_64_THERMAL_RGC		Y
69	1	Y1	32.768KHz	32.768KHz crystal, SMD	Seiko Instruments	SSPT7F-7PF20-R	SSP-T7-FL		Y
70	1	Y2	ECS-3525-080	8 MHz OCS	ECS Inc	ECS-3525-080-B-TR	OSC_4P		Y