

		PROJECT NAME:	STEVAL-IHM042V1				Ver 1.2				March 5, 2013		
BILL OF MATERIALS													
Item	Quantity	Reference	Part / Value	Tolerance %	Voltage	Current	WATT	TECNOLOGY information	PACKAGE	Manufacturer	Manufacturer Code	RS/Distelec/Other Code	More Info
1	3	B1,B2,B3	BUTTON					Surface Mount Tactile Switch		Omron	B3S-1000	RS: 183-701	
2	2	CN1,CN2	Enc/Hall Connector							TE Connectivity	281695-5	RS: 531-992	
3	2	CN3,CN4	Motor					3 WAYS CONNECTOR MALE 90° 5.08mm		Phoenix Contact	MSTBA 2.5/ 3-G-5.08	RS: 189-6111	RS: 189-6026 plugged into
4	1	CN5	CON2					2 WAYS CONNECTOR MALE 90° 5.08mm		Phoenix Contact	MSTBA 2.5/ 2-G-5.08	RS:189-6105	RS: 189-6010 plugged into
5	1	CN6						8 way dual row strip line connector (male connector) 2,54mm pitch	Vertical Through Hole			RS code: 495-8436	
6	2	CN7,CN9						3 way dual row strip line connector (male connector) 2,54mm pitch	Vertical Through Hole			RS code: 495-8436	Pin6 manually removed
7	2	CN8,CN10	MINIUSB-TYCO-					USB mini connector female		TE Connectivity	1734035-2	RS: 718-7233	
8	6	C1,C2,C3,C4,C5,C6	10pF	5%	6.3V			SMD MULT.CERAMIC CAP.	C0603	ANY			
9	20	C7,C9,C16,C17,C32,C34,C35,C36,C37,C38,C41,C4	100nF	5%	4V			SMD MULT.CERAMIC CAP.	C0603	ANY			
10	1	C8	4.7nF	5%	4V			SMD MULT.CERAMIC CAP.	C0603	ANY			
11	2	C10,C11	22pF	5%	4V			SMD MULT.CERAMIC CAP.	C0603	ANY			
12	2	C13,C14	1nF	5%	4V			SMD MULT.CERAMIC CAP.	C0603	ANY			
13	1	C15	1uF	10%	6.3V			SMD MULT.CERAMIC CAP.	C0603	ANY			
14	2	C18,C19	220nF	5%	16V			SMD MULT.CERAMIC CAP.	C0603	ANY			
15	1	C20	47uF	20%	63V			ALUMINIUM ELECTROLYTIC CAPACITOR	SMT	Panasonic	EEEHA1J470UP	RS: 747-3023	
16	2	C21,C22	10nF	5%	50V			SMD MULT.CERAMIC CAP.	C0603	ANY			
17	4	C23,C24,C25,C26	100nF	5%	50V			SMD MULT.CERAMIC CAP.	C0603	ANY			
18	2	C27,C28	100nF	5%	50V			SMD MULT.CERAMIC CAP.	C0805	ANY			
19	1	C29	47uF	20%	6.3V			ALUMINIUM ELECTROLYTIC CAPACITOR	SMT	Sanyo	6SVP47M	RS: 651-6062	
20	1	C30	820pF	5%	6.3V			SMD MULT.CERAMIC CAP.	C0603	ANY			
21	1	C31	10uF	20%	50V			High Value Multilayer Ceramic Capacitors	C1210	Taiyo Yuden	UMK325BJ106MM-T	Digi-Key: 587-2225-1-ND	
22	4	C39,C40,C50,C51	20pF	5%	4V			SMD MULT.CERAMIC CAP.	C0603	ANY			
23	2	C45,C56	4.7uF	20%	25V			ALUMINIUM ELECTROLYTIC CAPACITOR	SMT	Nichicon	UWX1E4R7MCL2GB	RS: 739-5566	
24	1	C46	10uF	20%	25V			ALUMINIUM ELECTROLYTIC CAPACITOR	SMT	Nichicon	UUD1E100MCL1GS	RS: 739-3435	
25	1	C47	100nF	5%	6.3V			SMD MULT.CERAMIC CAP.	C0603	ANY			
26	2	D1,D2	BAV99					Small signal diode	SOT-23	Infineon	BAV99	RS: 544-4859	
27	1	D3	STPS0560Z					Power Schottky Rectifier		STMicroelectronics	STPS0560Z		
28	1	D4	GREEN LED					SMT LED		Avago Technologies	HSMG-C170	RS: 435-6767	
29	1	D5	RED					SMT LED		Avago Technologies	HSMS-C170	RS: 486-0480	
30	1	D6	BLU					SMT LED		Avago Technologies	HSMN-C170	RS: 716-6595	
31	4	JP1,JP2,JP3,JP4	STRIPLINE 1X3					3 WAYS STRIP LINE-MALE 2.54mm		Molex	90120-0763	RS: 360-6320	RS: 251-8682 plugged into. Default position like in silkscreen
32	1	JP5	STRIPLINE 1X2					2 WAYS STRIP LINE-MALE 2.54mm		Molex	90120-0762	RS: 360-6241	
33	2	LD1,LD2	HSMF_A201-A00J1					SMT LED TWO-COLOR		Avago Technologies	HSMF-A201-A00J1	RS: 496-6493	
34	1	L1	8.2uH		0.5A			SMT power inductor		Coilcraft	EPL2010-822MLB	Coilcraft: EPL2010-822MLB	
35	7	R1,R2,R3,R4,R5,R6,R28	4.7k	1%					R0603	ANY			
36	6	R7,R37,R38,R72,R73,R76	0	1%					R0603	ANY			
37	5	R8,R10,R41,R74,R75	NM	1%					R0603	ANY			
38	1	R9	120k	1%					R0603	ANY			
39	1	R11	8.2k	1%					R0603	ANY			
40	2	R12,R13	39k	1%					R0603	ANY			
41	1	R14	220	1%					R0603	ANY			
42	2	R15,R16	3.3k	1%					R0603	ANY			
43	7	R17,R40,R46,R48,R52,R55,R56	100k	1%					R0603	ANY			
44	6	R18,R19,R20,R21,R22,R23	0.47	1%			1W		R2512	Panasonic	ERJ1TRQFR47U	RS: 721-6249	
45	1	R24	0R	1%					R0603	ANY			
46	1	R25	47k	1%					R0603	ANY			
47	1	R26	330	1%					R0603	ANY			
48	5	R27,R34,R35,R45,R47	4k7	1%					R0603	ANY			
49	1	R29	2k7	1%					R0603	ANY			
50	6	R30,R31,R43,R44,R53,R54	100	1%					R0603	ANY			
51	1	R33	10k	10%				Trimmer Cermet		Bourns	3386P-1-103TLF	RS: 743-2445	
52	2	R36,R39	590	1%					R0603	ANY			
53	3	R42,R49,R57	10k	1%					R0603	ANY			
54	2	R50,R58	36k	1%					R0603	ANY			
55	2	R51,R59	1.5k	1%					R0603	ANY			
56	6	R60,R61,R62,R66,R67,R68	5.1k	1%					R0603	ANY			
57	6	R63,R64,R65,R69,R70,R71	13k	1%					R0603	ANY			
58	1	TP1	3V3					1 WAY STRIP LINE MALE		Vero Technologies	20-2137	RS: 101-2391	
59	1	TP2	GND					1 WAY STRIP LINE MALE		Vero Technologies	20-2137	RS: 101-2391	
60	2	T1,T2	BC818					NPN Transistor	SOT-23	Infineon	BC 818K-40	RS: 752-7915	
61	1	U1	STM32F303CCT6							STMicroelectronics	STM32F303CCT6		
62	2	U2,U3	L6230PD							STMicroelectronics	L6230PD		
63	1	U4	ST1S14PHR							STMicroelectronics	ST1S14PHR		
64	2	U5,U7	STM32F103C8T6							STMicroelectronics	STM32F103C8T6		
65	1	U6	LD1117D33TR							STMicroelectronics	LD1117D33TR		
66	3	X1,X2,X3	8MHz					8 MHzCrystal		MEC	HUS-8.000-18-30/50/4085	RS: 672-0268	