

Document reference:	PCB reference: STEVAL-IME008V1 (STHV749)
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Company:
STMicroelectronics

STEVAL-IME008V1

Item	Quantity	Reference	Part / Value	Voltage / Watt / Ampere	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number	Note
1	1	CN1	USB_miniB			Molex	54819-0572	
2	6	C1,C2,C9,C10,C78,C79	22000n 100V	100V		TDK	CKG57NX7S2A226M	
3	1	C3	4.7nF	100V	SMD 0805	ANY		
4	2	C5,C6	22000n 16V	16V	TANTALIUM B	AVX	TAJB226K016RNJ	
5	1	C4	22000n 16V	16V	TANTALIUM B	AVX	TAJB226K016RNJ	
6	1	C7	1uF	6.3V	SMD 0402	TDK	C1005X5R0J105K	
7	1	C8	2.2uF 6.3V		SMD 0603	AVX	TACL225M006XTA	Check POLARITY
8	1	C11	33nF		SMD 0402	ANY		
9	2	C12,C13	4u7	6.3V	SMD 0603	Rohm	TCM0J475M8R	Check POLARITY
10	1	C14	10u 10V 0805	10V	SMD 0805	AVX	TACR106K010RTA	Check POLARITY
11	2	C15,C18	100n 0402		SMD 0402	ANY		
12	7	C16,C17,C26,C27,C30,C31,C33	10uF 10V 0805	10V	SMD 0805	TDK	C2012X7R1A106K	
13	19	C19, C21, C22, C23, C24, C25, C28, C29, C32, C34, C62, C73, C116, C117, C118, C119, C120, C121, C122	100nF		SMD 0402	ANY		
14	1	C20	10nF		SMD 0402	ANY		
15	5	C35, C40, C51, C58, C66	100uF 6.3V 1206	6.3V	SMD 1206	Murata	GRM31CR0J107ME39L	
16	11	C36, C37, C38, C41, C42, C52, C53, C59, C60, C67, C68	4.7uF 6.3V 0603	6.3V	SMD 0603	TDK	C1608X5R0J475K	
17	24	C39, C43, C44, C45, C46, C47, C48, C49, C50, C54, C55, C56, C57, C61, C63, C64, C65, C69, C70, C71, C72, C83, C85, C87	0.22uF 6.3V 0402	6.3V	SMD 0402	ANY		
18	4	C74,C75,C92,C76	20p 1206		SMD 1206	ANY		
19	4	C77,C80,C112,C113	270p 100V 1206		SMD 1206	ANY		
20	22	C86,C88,C89,C90,C91,C93,C95,C97,C101,C102,CX1,CX2,CX3,CX4,CX5,CX6,CX7,CX8,CX9,CX10,CX11,CX12	220n	100V	SMD 0805	KEMET	C0805C224K1RACTU	
21	1	C123	1uF 6.3V		SMD 0402	TDK	C1005X5R0J105K	
22	1	D1	SM2T3V3A		DO-216AA	ST	SM2T3V3A	
23	7	D5, D24, D25, D26, D27, D28, D30	RED		SMD 0805	Kingbright	KP2012SURC	
24	16	D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21	YELLOW		SMD 1206	Kingbright	KP3216SYC	
25	1	D22	STTH102A		SMA		NOT ASSEMBLY	NOT ASSEMBLY
26	5	D2, D3, D4, D23, D29	GREEN		SMD 0805	Kingbright	KP2012MGC	
27	8	D31, D32, D33, D34, D35, D36, D37, D38	DFLS 1200				NOT ASSEMBLY	NOT ASSEMBLY
28	1	JP1	JUMPER		THR (spacing 2.54)	ANY		
29	5	J5, J35, J36, J37, J41	JUMPER		THR (spacing 2.54)	ANY	NOT ASSEMBLY	NOT ASSEMBLY
30	6	J1,J2,J3	LV			Phoenix Contact	MKDSN 1.5/2-5.08	
31	1	J4	3V3 Connector			Phoenix Contact	MPT 0.5/2-2.54	
32	2	J13	JUMPER		THR (spacing 2.54)	ANY		
33	1	J7	HEADER 16X2		THR (spacing 2.54)	ANY	NOT ASSEMBLY	NOT ASSEMBLY
34	2	J8, J9	HEADER 6X2		THR (spacing 2.54) Right Angle	ANY	NOT ASSEMBLY	NOT ASSEMBLY
35	1	J10	HEADER 10		THR (spacing 2.54)	ANY		
36	1	J11	CON14A		2.0mm 7x2 shrouded header		NOT ASSEMBLY	NOT ASSEMBLY
37	2	J12, J24	Header 3		THR (spacing 2.54)	ANY		
38	9	J14, J15, J16, J17, J20, J21, J28, J31, J38	JUMPER		THR (spacing 2.54)	ANY		
39	8	JCH1,JCh2,JCh3,JCh4,JLCh1,JLCh2,JLCh3,JLCh4	BNC			Tyco Electronics	1-1337482-0	
40	1	J40	SWD/JTAG (Male Connector 10 pin 2x5)		THR (spacing 1.27)	SAMTEC	FTSH-105-01-F-D-K	
41	1	L1	2.2uH			TDK	VL4012AT-2R2M1R5	
42	1	Q1	STR2N2VH5			ST		
43	1	RN1	RESISTOR DIP 4		SMD 1206		NOT ASSEMBLY	NOT ASSEMBLY
44	3	SW2, SW3, SW4	PUSHBUTTON LARGE					
45	3	RST1, RST2, SW5	PUSH BUTTON					
46	1	R1	1M		SMD 0603	ANY		
47	2	R2, R123	0		SMD 0402	ANY		
48	1	R47	0		SMD 0805	ANY		
49	21	R3, R4, R5, R8, R9, R16, R45, R46, R48, R49, R50, R58, R65, R76, R77, R78, R79, R87, R120, R121, R122	10K 0402		SMD 0402	ANY		
50	1	R6	10K 0402		SMD 0402	ANY	NOT ASSEMBLY	NOT ASSEMBLY
51	2	R7, R38	33R2		SMD 0402	ANY		
52	12	R10, R11, R12, R13, R51, R68, R81, R90, R124, R125, R127, R128	56R 0402		SMD 0402	ANY		

53	16	R14, R15, R19, R20, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32, R33, R34	68R 0402		SMD 0402	ANY		
54	2	R17,R22	2K43 0402		SMD 0402	ANY		
55	2	R18,R21	2K43 0402 N/A		SMD 0402	ANY	NOT ASSEMBLY	NOT ASSEMBLY
56	18	R39, R40, R64, R69, R70, R71, R72, R73, R74, R75, R80, R82, R83, R84, R85, R86, R88, R89	0R -N/A		SMD 0402	ANY	NOT ASSEMBLY	NOT ASSEMBLY
57	4	R41,R42,R43,R44	49R 0402		SMD 0402	ANY	NOT ASSEMBLY	NOT ASSEMBLY
58	1	R52	330 0402		SMD 0402	ANY		
59	4	R53,R55,R62,R54	100		SMD 2512	ANY		
60	1	R59	100k		SMD 0402	ANY		
61	5	R66,R67,R129,R130,R131	4K7		SMD 0402	ANY		
62	1	SW1	MMS228T		See Datasheet	KNITTER-SWITCH	MMS228T	
63	3	TP1,TP2,TP3	TEST POINT		THR	Keystone Electronics	5001 (5000)	
64	1	R126	10K 0402			ANY		
65	1	U1	USBUF02W6		See Datasheet	ST		
66	1	U2	LDS3985M33R		See Datasheet	ST		
67	1	U3	ST1S12G12R		See Datasheet	ST		
68	1	U4	XC6SLX16-3CSG324C		See Datasheet	XILINX		
69	1	U5	DS1088LU-66		See Datasheet	MAXIM	DS1088LU-66	
70	1	U6	MC74VHC1G32DFT2G		See Datasheet	TI		
71	1	U7	SN74LVC1G08DCKR		See Datasheet	TI		
72	1	U8	STHV749L		See Datasheet	ST		
73	1	U9	N25Q032A13ESE40F		See Datasheet	MICRON		
74	1	U10	STM32F103C8T6		See Datasheet	ST		
75	1	Y1	Crystal Oscillator 8MHz			Murata	CSTCE8M00G55-R0	
76	1	X1	Crystal Oscillator		See Datasheet	EPSON	SG-8003CE 66,00MHz NOT ASSEMBLY	NOT ASSEMBLY