

**Table 1: STEVAL-IME014V1 bill of materials**

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
1	1	B1	-	SWITCH TACTILE SPST-NO 0.05A 12V	E-Switch	TL3301SPF260QG
2	1	B1_CUP	-	CUP for button 6x6. RED	E-Switch	-
3	1	B2	-	SWITCH TACTILE SPST-NO 0.05A 12V	E-Switch	TL3301SPF260QG
4	1	B2_CUP	-	CUP for button 6x6. BLACK	E-Switch	-
5	1	C1	100nF 16V	Capacitor not polarized	Any	-
6	1	C11	270pF 200V	Capacitor not polarized	Murata Electronics North America	GRM21A5C2D271JW01D
7	1	C12	270pF 200V	Capacitor not polarized	Murata Electronics North America	GRM21A5C2D271JW01D
8	1	C13	270pF 200V	Capacitor not polarized	Murata Electronics North America	GRM21A5C2D271JW01D
9	1	C17	270pF 200V	Capacitor not polarized	Murata Electronics North America	GRM21A5C2D271JW01D
10	1	C18	270pF 200V	Capacitor not polarized	Murata Electronics North America	GRM21A5C2D271JW01D
11	1	C19	270pF 200V	Capacitor not polarized	Murata Electronics North America	GRM21A5C2D271JW01D
12	1	C2	100nF 16V	Capacitor not polarized	Any	-
13	1	C23	270pF 200V	Capacitor not polarized	Murata Electronics North America	GRM21A5C2D271JW01D
14	1	C24	270pF 200V	Capacitor not polarized	Murata Electronics North America	GRM21A5C2D271JW01D
15	1	C25	270pF 200V	Capacitor not polarized	Murata Electronics North America	GRM21A5C2D271JW01D
16	1	C29	270pF 200V	Capacitor not polarized	Murata Electronics North America	GRM21A5C2D271JW01D
17	1	C3	100nF 16V	Capacitor not polarized	Any	-

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
18	1	C30	270pF 200V	Capacitor not polarized	Murata Electronics North America	GRM21A5C2D271JW01D
19	1	C33	270pF 200V	Capacitor not polarized	Murata Electronics North America	GRM21A5C2D271JW01D
20	1	C34	270pF 200V	Capacitor not polarized	Murata Electronics North America	GRM21A5C2D271JW01D
21	1	C37	470nF 100V ±10%	Capacitor not polarized	Murata	-
22	1	C38	330nF 100V ±10%	Capacitor not polarized	Murata	-
23	1	C39	680nF 100V ±10%	Capacitor not polarized	Murata	-
24	1	C4	100nF 16V	Capacitor not polarized	Any	-
25	1	C40	220nF ±10%	Capacitor not polarized	Murata	GRM21AR72A224KAC5L
26	1	C41	470nF 100V ±10%	Capacitor not polarized	Murata	-
27	1	C42	330nF 100V ±10%	Capacitor not polarized	Murata	-
28	1	C43	680nF 100V ±10%	Capacitor not polarized	Murata	-
29	1	C44	220nF ±10%	Capacitor not polarized	Murata	GRM21AR72A224KAC5L
30	1	C45	470nF 100V ±10%	Capacitor not polarized	Murata	-
31	1	C46	330nF 100V ±10%	Capacitor not polarized	Murata	-
32	1	C47	680nF 100V ±10%	Capacitor not polarized	Murata	-
33	1	C48	220nF ±10%	Capacitor not polarized	Murata	GRM21AR72A224KAC5L
34	1	C49	470nF 100V ±10%	Capacitor not polarized	Murata	-
35	1	C5	270pF 200V	Capacitor not polarized	Murata Electronics North America	GRM21A5C2D271JW01D
36	1	C50	330nF 100V ±10%	Capacitor not polarized	Murata	-
37	1	C51	680nF 100V ±10%	Capacitor not polarized	Murata	-

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
38	1	C52	220nF ±10%	Capacitor not polarized	Murata	GRM21AR72A224KAC5L
39	1	C53	100nF 16V	Capacitor not polarized	Any	-
40	1	C54	100nF 16V	Capacitor not polarized	Any	-
41	1	C55	100nF 16V	Capacitor not polarized	Any	-
42	1	C56	100nF 16V	Capacitor not polarized	Any	-
43	1	C57	100nF 16V	Capacitor not polarized	Any	-
44	1	C58	100nF 16V	Capacitor not polarized	Any	-
45	1	C59	100nF 16V	Capacitor not polarized	Any	-
46	1	C6	270pF 200V	Capacitor not polarized	Murata Electronics North America	GRM21A5C2D271JW01D
47	1	C60	100nF 16V	Capacitor not polarized	Any	-
48	1	C61	100nF 16V	Capacitor not polarized	Any	-
49	1	C62	100nF 16V	Capacitor not polarized	Any	-
50	1	C63	100nF 16V	Capacitor not polarized	Any	-
51	1	C64	100nF 16V	Capacitor not polarized	Any	-
52	1	C65	100nF 16V	Capacitor not polarized	Any	-
53	1	C66	100nF 16V	Capacitor not polarized	Any	-
54	1	C67	100nF 16V	Capacitor not polarized	Any	-
55	1	C68	100nF 16V	Capacitor not polarized	Any	-
56	1	C69	100nF 16V	Capacitor not polarized	Any	-
57	1	C7	270pF 200V	Capacitor not polarized	Murata Electronics North America	GRM21A5C2D271JW01D
58	1	C70	100nF 16V	Capacitor not polarized	Any	-

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
59	1	D1	-	LED GREEN	Vishay / Lite-On	LTST-C191KGKT
60	1	D2	-	LED YELLOW	Lite-On Inc.	LTST-C191KSKT
61	1	D3	-	LED YELLOW	Lite-On Inc.	LTST-C191KSKT
62	1	D4	-	LED YELLOW	Lite-On Inc.	LTST-C191KSKT
63	1	D5	-	LED RED	Lite-On Inc.	LTST-C191KRKT
64	1	D6	-	Schottky Diode	ST	<a href="#">STPS2L30A</a>
65	1	D7	-	LED RED	Lite-On Inc.	LTST-C191KRKT
66	1	J1	-	Header, 2.54mm, Male	Any	-
67	1	J2	-	Header, 2.54mm, Male	Any	-
68	1	J3	-	Header, 2.54mm, Male	Any	-
69	1	J4	-	-	Any	-
70	2	J5	-	-	SAMTEC	SSQ-119-23-G-D
71	1	J6	-	USB mini connector	Any	-
72	1	J7	-	-	Any	-
73	1	J8	-	-	Any	-
74	1	J9	-	-	Any	-
75	1	R1	0	Resistor	Any	-
76	1	R10	2k2	Resistor	Any	-
77	1	R11	2k2	Resistor	Any	-
78	1	R12	2k2	Resistor	Any	-
79	1	R13	2k2	Resistor	Any	-
80	1	R14	1k	Resistor	Any	-
81	1	R15	4k7	Resistor	Any	-
82	1	R16	100	Resistor	Any	-
83	1	R17	4k7	Resistor	Any	-
84	1	R18	100	Resistor	Any	-
85	1	R19	0	Resistor	Any	-
86	1	R2	0	Resistor	Any	-
87	1	R20	0	Resistor	Any	-
88	1	R21	0	Resistor	Any	-

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
89	1	R22	DNS	Resistor	Any	-
90	1	R23	DNS	Resistor	Any	-
91	1	R25	100	Resistor	Any	-
92	1	R26	100	Resistor	Any	-
93	1	R27	100	Resistor	Any	-
94	1	R3	100k	Resistor	Any	-
95	1	R31	0	Resistor	Any	-
96	1	R32	0	Resistor	Any	-
97	1	R33	0	Resistor	Any	-
98	1	R37	100	Resistor	Any	-
99	1	R38	100	Resistor	Any	-
100	1	R39	100	Resistor	Any	-
101	1	R4	1k	Resistor	Any	-
102	1	R43	0	Resistor	Any	-
103	1	R44	0	Resistor	Any	-
104	1	R45	0	Resistor	Any	-
105	1	R49	100	Resistor	Any	-
106	1	R5	24K	Resistor	Any	-
107	1	R50	100	Resistor	Any	-
108	1	R51	100	Resistor	Any	-
109	1	R55	0	Resistor	Any	-
110	1	R56	0	Resistor	Any	-
111	1	R57	0	Resistor	Any	-
112	1	R6	10k	Resistor	Any	-
113	1	R61	100	Resistor	Any	-
114	1	R62	100	Resistor	Any	-
115	1	R63	100	Resistor	Any	-
116	1	R67	0	Resistor	Any	-
117	1	R68	0	Resistor	Any	-
118	1	R7	10k	Resistor	Any	-
119	1	R71	100	Resistor	Any	-
120	1	R72	100	Resistor	Any	-

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
121	1	R75	0	Resistor	Any	-
122	1	R76	0	Resistor	Any	-
123	1	R79	100	Resistor	Any	-
124	1	R8	0	Resistor	Any	-
125	1	R80	100	Resistor	Any	-
126	1	R9	0	Resistor	Any	-
127	1	S1	-	SPDT Subminiature Toggle Switch, Right Angle Mounting, Vertical Actuation	Any	-
128	1	U1	-	STHV1600	ST	<a href="#">STHV1600</a>
129	1	U2	-	3.3 V, LVPECL/LVCMOS Clock Multiplier	ON Semiconductor	NB3N3020DTG
130	1	U3	-	USB filter	ST	<a href="#">USBUF01W6</a>

**Table 2: STEVAL-IME014V1D bill of materials**

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
1	1	D1	-	Schottky Diode	ST	<a href="#">STPS2L30A</a>
2	1	D2	-	Schottky Diode	ST	<a href="#">STPS2L30A</a>
3	1	D3	-	Schottky Diode	ST	<a href="#">STPS2L30A</a>
4	1	J1	-	Header, 2.54mm	Any	-
5	1	J2	-	Header, 2.54mm	Any	-
6	1	J3	-	Header, 2.54mm	Any	-
7	1	J4	-	-	Phoenix Contact	1751303
8	2	J5	-	-	SAMTEC	SSQ-119-21-G-D
9	1	Q1	-	-	ST	<a href="#">STR2P3LLH6</a>
10	1	Q2	-	-	ST	<a href="#">STR2P3LLH6</a>
11	1	Q3	-	-	ST	<a href="#">STR2N2VH5</a>
12	1	Q4	-	-	ST	<a href="#">STR2N2VH5</a>
13	1	U1	-	1.5 A, 1.5 MHz adjustable, step-down switching regulator	ST	<a href="#">ST1S03PUR</a>
14	1	U2	-	1.5 A, 1.5 MHz adjustable, step-down switching regulator	ST	<a href="#">ST1S03PUR</a>

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
15	1	U3	-	LDO adjustable	ST	<a href="#">LDFPUR</a>
16	1	U4	-	LDO adjustable	ST	<a href="#">LDFPUR</a>
17	1	R1	0	Resistor	Any	-
18	1	R9	dns	Resistor	Any	-
19	1	R15	0	Resistor	Any	-
20	1	R16	0	Resistor	Any	-
21	1	R17	0	Resistor	Any	-
22	1	R18	0	Resistor	Any	-
23	1	C1	100nF 16V	Capacitor not polarized	Any	-
24	1	C2	100nF 16V	Capacitor not polarized	Any	-
25	1	C8	100nF 16V	Capacitor not polarized	Any	-
26	1	C12	100nF 16V	Capacitor not polarized	Any	-
27	1	C15	100nF 16V	Capacitor not polarized	Any	-
28	1	R3	10kΩ	Resistor	Any	-
29	1	R10	10kΩ	Resistor	Any	-
30	1	C4	10μF 10V ±10 %	Capacitor not polarized	Murata	GRM21BR71A106KE51L
31	1	C6	10μF 10V ±10 %	Capacitor not polarized	Murata	GRM21BR71A106KE51L
32	1	C11	10μF 10V ±10 %	Capacitor not polarized	Murata	GRM21BR71A106KE51L
33	1	C14	10μF 10V ±10 %	Capacitor not polarized	Murata	GRM21BR71A106KE51L
34	1	C17	10μF 100V ±20%	Capacitor not polarized	TDK	CKG57NX7R2A106M500JH
35	1	C18	10μF 100V ±20%	Capacitor not polarized	TDK	CKG57NX7R2A106M500JH
36	1	C19	10μF 100V ±20%	Capacitor not polarized	TDK	CKG57NX7R2A106M500JH
37	1	C20	10μF 100V ±20%	Capacitor not polarized	TDK	CKG57NX7R2A106M500JH
38	1	C21	10μF 100V ±20%	Capacitor not polarized	TDK	CKG57NX7R2A106M500JH
39	1	C22	10μF 100V ±20%	Capacitor not polarized	TDK	CKG57NX7R2A106M500JH

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
40	1	C23	10µF 100V ±20%	Capacitor not polarized	TDK	CKG57NX7R2A106M500JH
41	1	C24	10µF 100V ±20%	Capacitor not polarized	TDK	CKG57NX7R2A106M500JH
42	1	C25	10µF 100V ±20%	Capacitor not polarized	TDK	CKG57NX7R2A106M500JH
43	1	C26	10µF 100V ±20%	Capacitor not polarized	TDK	CKG57NX7R2A106M500JH
44	1	C27	10µF 100V ±20%	Capacitor not polarized	TDK	CKG57NX7R2A106M500JH
45	1	C28	10µF 100V ±20%	Capacitor not polarized	TDK	CKG57NX7R2A106M500JH
46	1	C29	10µF 10V ±10 %	Capacitor not polarized	Murata	GRM21BR71A106KE51L
47	1	C30	10µF 10V ±10 %	Capacitor not polarized	Murata	GRM21BR71A106KE51L
48	1	C31	10µF 10V ±10 %	Capacitor not polarized	Murata	GRM21BR71A106KE51L
49	1	C32	10µF 10V ±10 %	Capacitor not polarized	Murata	GRM21BR71A106KE51L
50	1	R14	21kΩ ±0.1%	Resistor	TE Connectivity (Tyco Electronics)	RP73PF1J21kQBTDF
51	1	R2	27kΩ ±0.1%	Resistor	Panasonic / Panasonic ECG	ERA-3AEB273V
52	1	R6	27kΩ ±0.1%	Resistor	Panasonic / Panasonic ECG	ERA-3AEB273V
53	1	R11	27kΩ ±0.1%	Resistor	Panasonic / Panasonic ECG	ERA-3AEB273V
54	1	R13	27kΩ ±0.1%	Resistor	Panasonic / Panasonic ECG	ERA-3AEB273V
55	1	C3	4u7 16V ±10%	Capacitor not polarized	Murata	GRM21BR71C475KA73L
56	1	C7	4u7 16V ±10%	Capacitor not polarized	Murata	GRM21BR71C475KA73L
57	1	C9	4u7 16V ±10%	Capacitor not polarized	Murata	GRM21BR71C475KA73L
58	1	C13	4u7 16V ±10%	Capacitor not polarized	Murata	GRM21BR71C475KA73L
59	1	C16	4u7 16V ±10%	Capacitor not polarized	Murata	GRM21BR71C475KA73L



Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
60	1	L1	4u7 ±20%	Inductor	Vishay / Dale	IHLP2525CZER4R7M01
61	1	L2	4u7 ±20%	Inductor	Vishay / Dale	IHLP2525CZER4R7M01
62	1	R4	5k1	Resistor	Any	-
63	1	R7	5k1	Resistor	Any	-
64	1	R5	8k45 ±0.1%	Resistor	TE Connectivity Passive Product	CPF0603B8K45E1
65	1	R8	8k45 ±0.1%	Resistor	TE Connectivity Passive Product	CPF0603B8K45E2
66	1	R12	8k45 ±0.1%	Resistor	TE Connectivity Passive Product	CPF0603B8K45E3

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**Notice applicable to Evaluation Boards not FCC-Approved**

This kit is designed to allow:

1. Product developers to evaluate electronic components, circuitry, or software associated with the kit to determine whether to incorporate such items in a finished product and
2. Software developers to write software applications for use with the end product.

This kit is not a finished product and when assembled may not be resold or otherwise marketed unless all required FCC equipment authorizations are first obtained. Operation is subject to the condition that this product not cause harmful interference to licensed radio stations and that this product accept harmful interference. Unless the assembled kit is designed to operate under part 15, part 18 or part 95 of 47 CFR, Chapter I ("FCC Rules"), the operator of the kit must operate under the authority of an FCC license holder or must secure an experimental authorization under part 5 of this chapter.

**For Evaluation Boards annotated as FEDERAL COMMUNICATIONS COMMISSION (FCC) Part 15 Compliant**

- **FCC Interference Statement for Class A Evaluation Boards:** This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction

manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

- **FCC Interference Statement for Class B Evaluation Boards:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.
- This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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"Affiliates" means any corporation or other entity directly or indirectly controlled by, controlling or under common control with the entity in question, for so long as such ownership exists. "Control" means the direct or indirect beneficial ownership of more than fifty (50%) percent of the stock or other equity interests entitled to vote for the election of directors or an equivalent governing body. Any such corporation or other legal entity shall be deemed to be an Affiliate of such Party only as long as such Control exists.

## TERMINATION

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This Agreement shall be governed, construed and enforced in accordance with the laws of Switzerland, without regard to its conflict of laws rules. The UN Convention on Contracts for the International Sale of Goods shall not apply to this Agreement. In case of dispute and in the absence of an amicable settlement, the only competent jurisdiction shall be the Courts of Geneva, Switzerland. Any breach of this Agreement by You may result in irreparable damage to ST for which ST will not have an adequate remedy at law. Accordingly, in addition to any other remedies and damages available, You acknowledge and agree that ST may immediately seek enforcement of this Agreement in any jurisdiction by means of specific performance or injunction, without any requirement to post a bond or other security.

**SEVERABILITY**

If any provision of this agreement is or becomes, at any time or for any reason, unenforceable or invalid, no other provision of this agreement shall be affected thereby, and the remaining provisions of this agreement shall continue with the same force and effect as if such unenforceable or invalid provisions had not been inserted in this Agreement. In addition, any unenforceable or invalid provision shall be deemed replaced by a provision that is valid and enforceable and that comes closest to expressing the intention of the unenforceable or invalid provision.

**WAIVER**

The waiver by either party of any breach of any provision of this Agreement shall not operate or be construed as a waiver of any other or a subsequent breach of the same or a different provision.

**RELATIONSHIP OF THE PARTIES**

Nothing in this Agreement shall create, or be deemed to create, any joint venture, partnership, principal-agent, employer-employee or other relationship between the Parties, except that of independent contractors. Neither Party has the authority or power to bind, to contract in the name of, or to create a liability for the other in any way or for any purpose.

**SURVIVAL**

Any provision of this Agreement which imposes an obligation after termination of this Agreement shall survive the termination of this Agreement.

**SECTION HEADINGS**

Section headings are inserted for convenience only and shall not be used to interpret this Agreement.

**RECYCLING**

**The Evaluation Board is not to be disposed as an urban waste. At the end of its life cycle, differentiated waste collection must be followed, as stated in the directive 2002/96/EC.** In all the countries belonging to the European Union (EU Dir. 2002/96/EC) and those following differentiated recycling, the Evaluation Board is subject to differentiated recycling at the end of its life cycle, therefore: It is forbidden to dispose the Evaluation Board as an undifferentiated waste or with other domestic wastes. Consult the local authorities for more information on the proper disposal channels. It is mandatory to sort the Evaluation Board and deliver it to the appropriate collection centers, or, when possible, return the Evaluation Board to the seller. An incorrect Evaluation Board disposal may cause damage to the environment and is punishable by the law.