

Table 1: STEVAL-ISB047V1 bill of materials

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
1	1	-	STEVAL- ISB047V1T	Qi 3-coil 15W wireless charger TX board	ST	not available separately
2	1	-	STEVAL- WBCDNGV1	Dongle USB To UART	ST	not available separately
3	1	-	12 V, 24 W	AC/DC External Wall Mount Adapter Multi- Blade (Included) Input	XP Power	VER24US120-JA
4	1	-	1 m length, black	USB Type A Plug to Micro USB Type B Plug, USB 2.0	Molex	68784-0001

Table 1: STEVAL-ISB047V1T bill of materials

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
1	2	C100, C103	NP	CER, 603	any	-
2	4	C101, C106, C609, C611	100nF, 50V, 15%	CER, 402	any	-
3	2	C102, C105	10µF, 25V, 20%	CER, 1206	WURTH ELECTRONIK	885012108021
4	1	C104	NP	CER, 1210	any	-
5	4	C107, C110, C221, C404	10nF, 50V, 10%	CER, 402	any	-
6	3	C108, C200, C201	22µF, 25V, 20%	CER, 1210	WURTH ELECTRONIK	885012109014
7	12	C109, C113, C114, C400, C401, C402, C405, C606, C802, C904, C1004, C1103	100nF, 25V, 15%	CER, 402	any	-
8	5	C111, C115, C204, C222, C800	NP	CER, 402	any	-
9	1	C112	10µF, 10V, 10%	CER, 805	MURATA	GRM21BR71A106KE51L
10	2	C202, C203	10µF, 50V, 10%	CER, 1206	any	-
11	6	C205, C220, C600, C905, C1005, C1105	100pF, 50V, 5%	CER, 402	any	-
12	1	C206	100nF, 50V, 5%	CER, 603	MURATA	GRM188R71H104KA93D
13	1	C207	5.6nF, 50V, 15%	CER, 402	any	-
14	6	C208, C209, C210, C211, C212, C213	22µF, 35V, 20%	CER, 1210	Taiyo Yuden	GMK325BJ226MM-P
15	1	C214	47µF, 35V, 20%	TANT	KEMET	T495X476M035ATE185
16	1	C216	10pF, 50V, 15%	CER, 402	any	-
17	3	C217, C218, C605	220nF, 16V, 10%	CER, 402	any	-
18	1	C219	100nF, 50V, 5%	CER, 1206	TDK	CGA5L2C0G1H104J160AA
19	1	C301	1µF, 10V, 15%	CER, 603	any	-
20	1	C302	NP, 50V, 15%	CER, 402	any	-
21	1	C303	100nF, 25V, 10%	CER, 603	any	-
22	1	C304	1nF, 50V, 15%	CER, 603	any	-
23	1	C403	1µF, 16V, 10%	CER, 402	any	-
24	1	C500	470pF, 50V, 15%	CER, 402	any	-

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
25	4	C501, C909, C1009, C1109	22nF, 50V, 15%	CER, 402	any	-
26	1	C502	2.2nF, 100V, 10%	CER, 603	AVX	06031C222KAT2A
27	1	C503	1nF, 50V, 10%	CER, 402	any	-
28	2	C504, C603	4.7nF, 50V, 15%	CER, 402	any	-
29	2	C601, C608	22pF, 50V, 5%	CER, 402	any	-
30	1	C607	2.2μF, 25V, 10%	CER, 402	any	-
31	1	C610	220pF, 50V, 15%	CER, 402	any	-
32	3	C801, C803, C804	1μF, 50V, 10%	CER, 402	any	-
33	1	C805	4.7μF, 50V, 15%	CER, 805	any	-
34	9	C900, C901, C902, C1000, C1001, C1002, C1100, C1101, C1102	100nF, 100V, 5%	CER, 1812	TDK	C4532C0G2A104J320KA
35	3	C903, C1003, C1104	4.7nF, 100V, 10%	CER, 603	TDK	CGA3E2X7R2A472K080AA
36	3	C906, C1006, C1106	470pF, 100V, 15%	CER, 402	any	-
37	3	C907, C1007, C1107	22nF, 100V, 15%	CER, 603	any	-
38	3	C908, C1008, C1108	10nF, 100V, 15%	CER, 603	any	-
39	3	C910, C1010, C1110	1nF, 100V, 15%	CER, 402	any	-
40	3	C911, C1012, C1111	680pF, 50V, 15%	CER, 402	any	-
41	1	C1011	33nF, 100V, 5%	CER, 1210	any	-
42	2	D100, D800	-	TVS/ESD/EMI, QFN1610	ST	ESDA25P35-1U1M
43	1	D200	-	SCHOTTKY, SOT1289	NXP	PMEG045V100EPD
44	1	D201	4.3V	ZENER, SOD323	NXP	BZX384-C4V3-AK
45	1	D300	NP	DIODE, SOD323	any	-
46	1	D400	RED	LED, L3.2_W2.5_H1	WURTH ELEKTRONIK	155124RS73200
47	1	D401	GREEN	LED, L3.2_W2.5_H1	WURTH ELEKTRONIK	155124VS73200
48	1	D500	-	SCHOTTKY, SOD523	ROHM	RB520S
49	4	D600, D903, D1003, D1103	-	DIODE, SOT323	NXP	BAV99W

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
50	1	D801	-	TVS/ESD/EMI, SOT323	ST	ESDA25W
51	6	D900, D901, D1000, D1001, D1100, D1101	-	DIODE, DIOD_SOD523	any	BAS521-7
52	3	D902, D1002, D1102	-	DIODE, SOT23	FAIRCHILD	MMBD1503A
53	1	J100	-	HEADER, TH_HEADER_1x3_P2	WURTH ELEKTRONIK	61300311121
54	1	J101	-	JACK, POWER JACK DC	CUI	PJ-002A
55	1	J400	-	USB, MICRO USB TYPE B SMD	WURTH ELEKTRONIK	629105150521
56	1	J401	-	HEADER, TH_HEADER_1x4_P2	WURTH ELEKTRONIK	61300411121
57	1	J800	USB_TYPE_C	USB, USB TYPE C	WURTH ELEKTRONIK	623723300011
58	1	L100	2.2µH, 3.8A , 20%	INDUCTOR, L5_W5_H4	WURTH ELEKTRONIK	74404054022
59	1	L200	2*4.7µH, 8A	CM_CHOKE	WURTH ELEKTRONIK	744871004
60	2	L400, L401	1K, 0.2A, 25%	FERRITE, 402	MURATA	BLM15AG102SN1D
61	1	M700	WM_rev3	PCB	any	PCB WM - 2 layers
62	1	M708	-	SPACER	any	-
63	1	M709	-	SPACER	any	-
64	4	M710, M711, M712, M713	-	SPACER	RS	HTSB-M3-20-5-1
65	8	M714, M715, M716, M717, M718, M719, M720, M721	-	SCREW	DURATOOL	M316 KRSTMCZ100
66	8	M718, M719, M720, M721, M722, M723, M724, M725	-	SPACER	DURATOOL	D01475
67	4	M726, M727, M728, M729	-	SCREW	DURATOOL	M3- HFST-Z100-
68	1	M730	12mm x 33mm	SPACER	3M	GPH-060GF 12MMX33M
69	1	M900	coil A:8.5uH - coil B:7.5uH - coil C:8.5uH, 9A	INDUCTOR	WURTH ELEKTRONIK	760 308 103 147
70	2	Q200, Q202	NPN-PNP	CMS, SOT363	ON SEMICONDUCT	MMDT4413
71	1	Q201	N-MOS	CMS, POWERFLAT-5x6	ST	STL8DN6LF3
72	2	Q300, Q301	N-MOS	CMS, POWERFLAT-3x3	ST	STL10N3LLH5
73	1	Q302	N-MOS	CMS, SOT23	ON SEMICONDUCT	2N7002

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
74	3	Q500, Q600, Q802	NPN-NPN	CMS, SOT363	ON SEMICONDUCT	BC847CDW1T1G
75	2	Q800, Q801	P-MOS	CMS, L3_W3_H0.75	ST	STL6P3LLH6
76	3	Q900, Q1000, Q1100	N-MOS	CMS, POWERPAK_SO_8	VISHAY	SIR616DP-T1-GE3
77	6	Q901, Q902, Q1001, Q1002, Q1101, Q1102	NPN	CMS, SOT323	ON SEMICONDUCT	BC847CWT1G
78	2	R100, R207	220K, 1/16W, 1%	RES, 402	any	-
79	1	R101	12K, 1/16W, 1%	RES, 402	any	-
80	1	R102	330K, 1/16W, 1%	RES, 402	any	-
81	1	R103	120K, 1/16W, 5%	RES, 402	any	-
82	7	R200, R202, R414, R415, R509, R809, R813	10R, 1/16W, 5%	RES, 402	VISHAY	10R_5%_0402
83	2	R201, R810	NP	RES, 402	any	-
84	1	R203	1K, 1/16W, 1%	RES, 402	any	-
85	10	R204, R405, R406, R408, R410, R804, R805, R806, R807, R811	100K, 1/16W, 5%	RES, 402	any	-
86	4	R205, R900, R1000, R1100	470R, 1/16W, 1%	RES, 402	any	-
87	1	R206	0.033R, 1/2W, 1%	RES, 1206	any	-
88	1	R208	47R, 1/16W, 5%	RES, 402	any	-
89	1	R209	75K, 1/16W, 1%	RES, 402	any	-
90	2	R210, R213	3.3K, 1/16W, 1%	RES, 402	any	-
91	3	R211, R212, R508	10K, 1/16W, 1%	RES, 402	any	-
92	1	R214	4.7K, 1/16W, 1%	RES, 402	any	-
93	2	R300, R301	22R, 1/16W, 1%	RES, 402	any	-
94	1	R302	0.022R, 1W, 1%	RES, 1206	any	-
95	1	R303	NP, 1/16W, 5%	RES, 402	any	-
96	1	R304	22R, 1/10W, 5%	RES, 603	any	-

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
97	10	R400, R401, R402, R801, R903, R904, R1003, R1004, R1103, R1104	10K, 1/16W, 5%	RES, 402	any	-
98	5	R403, R610, R902, R1002, R1102	1M, 1/16W, 5%	RES, 402	any	-
99	4	R404, R909, R1009, R1109	1K, 1/16W, 5%	RES, 402	any	-
100	1	R407	180K, 1/16W, 1%	RES, 402	any	-
101	1	R409	47K, 1%	THERMISTANCE, 402	MURATA	NCP15WB473F03RC
102	2	R411, R412	470R, 1/16W, 5%	RES, 402	any	-
103	4	R413, R908, R1008, R1108	470K, 1/16W, 5%	RES, 402	any	-
104	3	R500, R505, R603	1M, 1/16W, 1%	RES, 402	any	-
105	2	R501, R601	47K, 1/16W, 1%	RES, 402	any	-
106	1	R502	0R, 1/16W, 5%	RES, 402	any	-
107	5	R503, R504, R507, R600, R602	470K, 1/16W, 1%	RES, 402	any	-
108	7	R506, R604, R606, R611, R906, R1006, R1106	100K, 1/16W, 1%	RES, 402	any	-
109	2	R605, R612	22K, 1/16W, 1%	RES, 402	any	-
110	1	R608	150K, 1/16W, 1%	RES, 402	any	-
111	2	R609, R802	2.2K, 1/16W, 5%	RES, 402	any	-
112	1	R613	330R, 1/16W, 5%	RES, 402	any	-
113	1	R800	0R, 1/10W, 5%	RES, 603	any	-
114	1	R803	470R, 1/2W, 1%	RES, 1206	any	-
115	1	R808	39K, 1/16W, 1%	RES, 402	any	-
116	1	R812	39K, 1/16W, 5%	RES, 402	any	-
117	1	R814	33K, 1/16W, 1%	RES, 402	any	-
118	6	R901, R905, R1001, R1005, R1101, R1105	82K, 1/16W, 1%	RES, 402	any	-
119	3	R907, R1007, R1107	2.7K, 1/16W, 1%	RES, 402	any	-

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
120	2	TP100, TP101	WIRE_SOLDER	TEST POINT	any	-
121	16	TP102, TP103, TP200, TP300, TP301, TP400, TP401, TP402, TP403, TP404, TP405, TP406, TP600, TP601, TP800, TP801	-	TEST POINT	any	TPSMD-1MM
122	6	TP900, TP901, TP1000, TP1001, TP1100, TP1101	-	TEST POINT	any	TPSMD-2x5MM
123	1	U100	-	CONVERTER, DFN8_L3_W3	ST	ST715PUR
124	1	U300	-	DRIVER, DFN8_L3_W3	MICROCHIP	MCP14700_DFN8
125	1	U400	-	CONTROLLER, QFN32	ST	STWBC-MC
126	1	U401	-	LOGIC, TSSOP16	ST	M74HC4094YTTR
127	1	U600	-	AMPLIFIER, SOT353	ST	TSV521ICT
128	1	U800	-	CONTROLLER, QFN24	ST	STUSB4500
129	1	J700	NP	HEADER, TH_HEADER_1x20_P2	WURTH ELEKTRONIK	61302011121
130	12	TP700, TP701, TP702, TP703, TP704, TP705, TP706, TP707, TP708, TP709, TP710, TP711	-	TEST POINT,	any	TPSMD-1x3MM

Table 1: STEVAL-WBCDNGV1 bill of materials

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
1	3	C1, C6, C7	100 NF 50 V ±15%	Ceramic capacitors, X7R, 0603	any	-
2	1	C2	10 µF 25 V ±10%	Ceramic capacitor X7R, 0805	any	-
3	1	C3	10 NF 50 V ±15%	Ceramic capacitor, X7R, 0603	any	-
4	2	C4, C5	47 PF 25 V 0.15	Ceramic capacitors, X5R, 0603	any	-
5	1	D1	-	Very low capacitance ESD protection - SOT23-6L	ST	USBLC6-2SC6
6	1	J1	-	USB	Molex	48037-0001
7	1	J2	-	USB	Wurth Elektronik	61400416021
8	1	J3	JUMP254P-M-2	Header	Molex	22-28-4023_C
9	1	L1	120 R 0.5 A ±25%	Ferrite, 0603	Wurth Elektronik	74279262
10	4	R1, R2, R3, R11	0 R 1/10 W ±5%	Resistors, 0603	any	-
11	2	R4, R5	10 K 1/10 W ±5%	Resistors, 0603	any	-
12	2	R6, R9	330 R 1/10 W ±5%	Resistors, 0603	any	-
13	3	R7, R8, R10	NP	Resistors, 0603	any	-
14	1	U1	FT232R SSOP28	Converter	FTDI	FT232R

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Notice applicable to Evaluation Boards according to European Regulation

For the European Regulation of the Evaluation Board, the applicable EU directives are considered, with a particular attention to the Low Voltage Directive (LVD) 2014/35/EU, the Electromagnetic Compatibility (EMC) Directive 2014/30/EU, and the Radio Equipment Directive (RED) 2014/53/EU. If the Evaluation Board is outside the scope of the foregoing Directives, then the General Product Safety Directive (GPSD) 2001/95/EC and Council Directive 93/68/EEC, amending Directive 73/23/EEC on electrical equipment designed for use within certain voltage limits, are applicable.

The Evaluation Board meets the requirements of the Restriction of Hazardous Substances (RoHS 2 or RoHS recast) Directive 2011/65/EU, Annex II, as amended by Directive 2015/863/EU.

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.

WARRANTY

ST WARRANTS THAT IT HAS THE RIGHT TO PROVIDE THE EVALUATION BOARD TO YOU. THIS WARRANTY IS PROVIDED BY ST IN LIEU OF ALL OTHER WARRANTIES, WRITTEN OR ORAL, STATUTORY, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY, NON-INFRINGEMENT, FITNESS FOR ANY PARTICULAR PURPOSE, OR UNINTERRUPTED OR ERROR-FREE OPERATION, ALL OF WHICH ARE EXPRESSLY DISCLAIMED. THE EVALUATION BOARD IS PROVIDED "AS IS".

YOU WARRANT TO ST THAT YOU WILL ENSURE THE EVALUATION BOARD IS USED ONLY BY ELECTRONICS EXPERTS WHO UNDERSTAND THE DANGERS OF HANDLING AND USING SUCH ITEMS, YOU ASSUME ALL RESPONSIBILITY AND LIABILITY FOR ANY IMPROPER OR UNSAFE HANDLING OR USE OF THE EVALUATION BOARD BY YOU, YOUR EMPLOYEES, AFFILIATES, CONTRACTORS, AND DESIGNEES.

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IN NO EVENT SHALL ST BE LIABLE TO YOU, WHETHER IN CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY, OR ANY OTHER LEGAL THEORY, FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, INCIDENTAL, PUNITIVE, OR EXEMPLARY DAMAGES WITH RESPECT TO ANY MATTERS RELATING TO THIS AGREEMENT, REGARDLESS OF WHETHER ST HAS BEEN ADVISED OF THE POSSIBILITY OF THE SAME. IN NO EVENT SHALL ST'S LIABILITY ARISING OUT OF THIS AGREEMENT IN THE AGGREGATE EXCEED THE AMOUNT PAID BY YOU UNDER THIS AGREEMENT FOR THE PURCHASE OF THE EVALUATION BOARD, OR TEN UNITED STATES DOLLARS (\$10.00) IF NO PURCHASE PRICE WAS PAID.

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You shall, at Your expense, defend ST and its Affiliates against a claim or action brought by a third party for infringement or misappropriation of any patent, copyright, trade secret or other intellectual property right of a third party to the extent resulting from (1) Your combination of the Evaluation Board with any other component, system, software, or firmware, (2) Your modification of the Evaluation Board, or (3) Your use of the Evaluation Board in a manner not permitted under this Agreement. You shall indemnify ST and its Affiliates against and pay any resulting costs and damages finally awarded against ST or its Affiliates or agreed to in any settlement, provided that You have sole control of the defense and settlement of the claim or action, and ST cooperates in the defense and furnishes all related evidence under its control at Your expense. ST will be entitled to participate in the defense of such claim or action and to employ counsel at its own expense.

"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

ST may terminate this Agreement without notice if You breach this Agreement. Upon termination, You shall immediately destroy or return all copies of the software, firmware, and documentation of the Evaluation Board to ST and certify in writing to ST that You have done so.

APPLICABLE LAW AND JURISDICTION

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.

WASTE AND RECYCLING

The Evaluation Board is not to be disposed of as urban waste. At the end of its life cycle, differentiated waste collection must be followed. Consult the local authorities for more information on the proper disposal channels. It is mandatory to separately collect the Evaluation Board and make sure it is delivered it to the appropriate waste management and recycling centers.

As of 15 August 2018, in all the countries belonging to the European Union, the Evaluation Board is subject to the WEEE Directive 2012/19/EU requirement; therefore, it is forbidden to dispose of the Evaluation Board as undifferentiated waste or with other domestic wastes. Consult the local authorities for more information on the proper recycling centers.

Disposing of the Evaluation Board incorrectly may cause damage to the environment and may be subject to fines based on specific countries' rules.