

Bill of materials

Table 1. STEVAL-VOICE-UI bill of materials

Item	Q.ty	Ref.	Part/Value	Description	ManuFacterer	Order code
1	1	Table 2. STEVA L-VUIMB02V1		Main board	ST	Not available for separate sale
2	1	Table 3. STEVA L-VUIDB01V1		Daughter board	ST	Not available for separate sale

Table 2. STEVAL-VUIMB02V1 bill of materials

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
1	3	C3, C17, C27	2.2µF, 0402 (1005 Metric)	CAP CER 2.2µF 10V X5R 0402	Wurth Electronics Inc.	Wurth-885012105013
2	1	C4	15µF, 0402 (1005 Metric)	CAP CER 15µF 6.3V X5R 0402	Murata	GRM155R60J156ME05D
3	10	C5, C6, C7, C9, C10, C13, C14, C16, C18, C20	100nF, 0402 (1005 Metric)	CAP CER 0.1µF 16V X7R 0402	Murata Electronics North America	GRM155R71C104KA88J
4	1	C8	1µF, 0402 (1005 Metric)	CAP CER 1µF 10V X5R 0402	Taiyo Yuden	JMK105BJ105KV-F
5	3	C11, C28, C29	4.7µF, 0402 (1005 Metric)	CAP CER 4.7µF 10V X5R 0402	Murata Electronics North America	GRM155R61A475MEAAD
6	2	C12, C15	6.8pF, 0402 (1005 Metric)	CAP CER 6.8PF 10V C0G/NP0 0402	Murata Electronics North America	GRM0225C1E6R8CA03L
7	1	C19	10µF, 0402 (1005 Metric)	CAP CER 10µF 10V X5R 0402	Samsung Electro-Mechanics America, Inc.	CL05A106MP8NUB8
8	1	C23	3nH, 0402 (1005 Metric)	FIXED IND 3NH 1.35A 63 MOHM SMD	Murata	LQW15AN3N0C80D
9	1	C30	10nF, 0402 (1005 Metric)	Cap Ceramic 0.01µF 50V X7R 10% SMD 0402 125C Paper T/R	Murata	GCM155R71H103KA55D
10	1	CN1	CON40A	40pin B-to-B Socket	Hirose	DF17(4.0)-40DS-0.5V(57)
11	1	CN2	CON40A	40pin B-to-B plug	Hirose	DF17(2.0)-40DP-0.5V(57)
12	1	J1		RES SMD 0 OHM 0603	Yageo	AC0603JR-070RL
13	1	J2	FTSH-107-01-L-D-RA, not mounted	STDC14 - 90deg TH	Samtec	FTSH-107-01-L-D-RA

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
14	2	J3, J4		RES SMD 0 OHM 1206 or 2.54 Jumper	Yageo	AF1206JR-070RL
15	1	L1	2.2uH,	2.2 uH, 20%, 1.3A	Würth	Würth-74438323022
16	3	L2, R7, R9		Fixed resistors	Vishay Dale	CRCW04020000Z0ED
17	1	L3		Inductor, 2.2µH, 20%, Isat 0.35A, DCR 0.2Ohm, 0603	Murata	LQM18PN2R2MGH
18	2	R1, R2	4.7k, 0402 (1005 Metric)	RES SMD 4.7K OHM 1% 1/16W 0402	TE Connectivity Passive Product	CRG0402F4K7
19	2	R3, R6	10K, 0402 (1005 Metric)	RES SMD 10K OHM 1% 1/16W 0402	Yageo	RC0402FR-0710KL
20	1	R4	15k, 0402 (1005 Metric)	RES SMD 15K OHM 1% 1/16W 0402	TE Connectivity Passive Product	CRG0402F15K
21	1	R5	68k, 0402 (1005 Metric)	RES SMD 68K OHM 1% 1/16W 0402	TE Connectivity Passive Product	CRG0402F68K
22	1	R8	3pF, 0402 (1005 Metric)	CAP CER 3PF 50V C0G/NP0 0402	Murata	GJM1555C1H3R0CB01D
23	19	SB1, SB2, SB3, SB8, SB9, SB10, SB11, SB12, SB13, SB14, SB15, SB16, SB17, SB21, SB24, SB30, SB32, SB34, SB36	0R	RES SMD 0 OHM 1% 1/16W 0402	Vishay Dale	CRCW04020000Z0ED
24	2	SW1, SW2	TDD01H0SB1R	SWITCH SLIDE DIP SPDT 25MA 24V	ITT C&K	TDD01H0SB1R
25	1	U1	STSAFE-A110, not mounted	Authentication, state-of-the-art security for peripherals and IoT devices	ST	STSAFE-A110
26	1	U2	LBEE5KL1DX-626	Wi-Fi 11b/g/n + Bluetooth 5.1 module - 1DX-SPI	Murata	LBEE5KL1DX-626
27	1	U3	IS25LP016D-JKLE	Flash	ISSI	IS25LP016D-JKLE
28	1	U4	ST1S12GR	Step-down switching regulator	ST	ST1S12GR
29	1	U5	STM32H7x3VIT	ARM Cortex-M7 core MCU	ST	STM32H753VIT6E
30	1	X1	16MHz	16.00MHz Crystal 8pF	NDK	NX3225GA-16MHZ-STD-CRG-1

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
31	1	X3	ECS-327MVATX-1-CN-TR		ECS International	ECS-327MVATX-1-CN-TR

Table 3. STEVAL-VUIDB01V1 bill of materials

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Part Number
1	1	CN1	CON40A	40pin B-to-B plug	Hirose	DF17(2.0)-40DP-0.5V(57)
2	1	CN3		USB Type-C	Würth Electronics Inc	632723x00011
3	17	C2, C3, C4, C5, C6, C7, C8, C9, C10, C12, C21, C23, C26, C28, C30, C34, C35	100nF, 0402 (1005 Metric), X7R V, 10 %	CAP CER 0.1UF 16V X7R 0402	Murata Electronics North America	GRM155R71C104KA88J
4	11	C11, C16, C17, C24, C25, C27, C31, C32, C33, C36, C37	1µF, 0402 (1005 Metric), X5R V, 10 %	CAP CER X5R 0402	Taiyo Yuden	JMK105BJ105KV-F
5	2	C13, C20	4.7µF, 0402 (1005 Metric), X5R V, 20 %	CAP CER 10V X5R 0402	Murata Electronics North America	GRM155R61A475MEAAD
6	2	C14, C18	330pF, 0402 (1005 Metric), C0G/NP0 V, ±5 %	CAP CER C0G/NP0 0402	Murata Electronics North America	GCM1555C1H331JA16D
7	2	C15, C19	3.3µF 10V, 0402 (1005 Metric), X5R V, ±10 %	CAP CER 3.3UF 10V X5R 0402	TDK	C1005X5R1A335M050BC
8	1	C22	4.7nF, 0402 (1005 Metric), X7R V, ±10 %	CAP CER 4.7nF 10V X7R 0402	Murata Electronics North America	GCM155R71H472KA37D
9	1	C29	330µF/25V, 8x8x10, ±20 %	CAP ALUM 330UF 20% 25V SMD	Nichicon	UUD1E331MNL1GS
10	2	D1, D2	ESDALC6V1-1U2, ST0201	Single-line low capacitance Transil for ESD protection	ST	ESDALC6V1-1U2
11	1	D3	ESDA7P60-1U1M, 1610	High power transient voltage suppressor	ST	ESDA7P60-1U1M
12	2	J1, J8	CON5_0	Header p2.54 M	Any	
13	1	J2	CON2	Morsettiera a 2 vie, passo 2.54mm	Amphenol	VN02A1500000G
14	1	J3	GND, not mounted	Test Point Through Hole	Any	
15	1	J5	CON14A, not mounted		Any	

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Part Number
16	1	J7	SPKR	Morsettiiera a 2 vie, passo 2.54mm	Amphenol	VN02A1500000G
17	1	J9	STDC14	STDC14 - ARM MIPI10 compatible	Samtec	FTSH-107-01-L-DV-K
18	1	LED1	Green, LED_0402	GREEN LED	Panasonic Electronic Components	LNJ347W83RA
19	1	LED2	Red, LED_0402	RED LED	Any	
20	1	LED3	Blue, LED_0402	BLUE LED	Any	
21	1	LED4	Orange, LED_0402	ORANGE LED	Any	
22	2	L1, L2	XAL5050-103ME, 6x6	Fixed Inductors 10uH 20% 4.9A 45mOhms	COILCRAFT	XAL5050-103ME
23	3	M1, M2, M3	MP23DB01HP, RHLGA 3.5x2.65	MEMS audio sensor multi-performance mode digital microphone	ST	MP23DB01HP
24	1	RESET	SW PUSHBUTTON-SPST-2, 4.2x3.2x2.5mm	Push Button Black	ALPS	SKRPADE010
25	4	RGB1, RGB2, RGB3, RGB4		RGB LEDs	OSRAM	LRTBR48G-P9Q7-1+R7S5-26+N5P-68
26	2	R2, R7	1k, 0402 (1005 Metric), 100ppm/C V, ± 1 %	RES SMD 1K OHM 1% 1/16W 0402	Yageo	RC0402FR-071K1L
27	1	R3	390R, 0402 (1005 Metric), 100ppm/C V, ± 1 %	RES SMD 390 OHM 1% 1/16W 0402	Yageo	RC0402FR-07390RL
28	2	R4, R5	5k1, 0402 (1005 Metric), 100ppm/C V, ± 1 %	RES SMD 5k1 OHM 1% 1/16W 0402	Yageo	RC0402JR-075K1L
29	1	R6	560R, 0402 (1005 Metric), 100ppm/C V, ± 1 %	RES SMD 560 OHM 1% 1/16W 0402	Yageo	RC0402FR-07560RL
30	1	R8	100R, 0402 (1005 Metric), 100ppm/C V, ± 1 %	RES SMD 100 OHM 1% 1/16W 0402	Yageo	RC0402JR-07100RL
31	4	R9, R10, R11, R12	0R, 0402 (1005 Metric), 100ppm/C V, ± 1 %	RES SMD 0 OHM 1% 1/16W 0402	Vishay Dale	CRCW04020000Z0ED
32	5	R13, R14, R20, R21, R22	10k, 0402 (1005 Metric), 100ppm/C V, ± 1 %	RES SMD 10K OHM 1% 1/16W 0402	Yageo	RC0402FR-0710K1L
33	2	R15, R17	10R, 0402 (1005 Metric), 100ppm/C V, ± 1 %	RES SMD 10 OHM 1% 1/16W 0402	Yageo	RC0402JR-0710RL
34	2	R16, R18	51R, 0402 (1005 Metric), 100ppm/C V, ± 1 %	RES SMD 51 OHM 1% 1/16W 0402	Yageo	RC0402JR-0751RL

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Part Number
35	2	R19, R23	49.9K, 0402 (1005 Metric), 100ppm/C V, ±1 %	RES SMD 49.9K OHM 1% 1/16W 0402	Yageo	RC0402FR-0749K9L
36	1	R24	499K, 0402 (1005 Metric), 100ppm/C V, ±1 %	RES SMD 49.9K OHM 1% 1/16W 0402	Yageo	RC0402FR-0749K9L
37	10	SB3, SB4, SB6, SB7, SB9, SB10, SB11, SB12, SB13, SB14	0R, 0402 (1005 Metric), Jumper	RES SMD 0 OHM 1% 1/16W 0402	Vishay Dale	CRCW04020000Z0ED
38	4	SB5, SB8, SB15, SB16	NC, 0402 (1005 Metric) Jumper, not mounted	RES SMD 0 OHM 1% 1/16W 0402	Vishay Dale	CRCW04020000Z0ED
39	1	SW1		Joystick	Alps	SKRHADE010
40	1	TP1	TH	Test Point Through Hole	Keystone Electronics	5001
41	2	TP2, TP3	TH, not mounted	Test Point Through Hole	Any	
42	1	USR	SPST-2, 4.2x3.2x2.5mm	Push Button	ALPS	SKRPABE010
43	1	U1	ESDA6V1-5SC6	ESD Protection	ST	ESDA6V1-5SC6
44	1	U2	FDA903D	Class D digital input automotive audio amplifier	ST	FDA903D
45	1	U3	HSP061-2N4, uQFN-4L	2-line ESD protection for high speed lines	ST	HSP061-2N4
46	1	U4	LED1202, QFN20 3x3	12-channel current LED driver	ST	LED1202QTR

Evaluation board license agreement

Important: All information on this document is subject to this Evaluation Board License Agreement.

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RESTRICTIONS AND WARNINGS

Before You handle or use the Evaluation Board, You must carefully review any related documentation provided by ST. Such documentation may contain important warnings. You shall comply with all such warnings and other instructions and employ reasonable safety precautions in using the Evaluation Board. Failure to do so may result in death, personal injury, or property damage. If You have any questions regarding the safe usage of the Evaluation Board, You should contact ST for guidance.

You may not sell, assign, sublicense, lease, rent or otherwise distribute the Evaluation Board for commercial purposes, in whole or in part, or use Evaluation Board in a production system, with the exception that if You are an authorized ST distributor, You may resell the Evaluation Board in compliance with the applicable terms and conditions. Except as provided in this Agreement or as explicitly permitted in the documentation of the Evaluation Board, You may not reproduce the Evaluation Board or modify,

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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".

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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.

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