

Table 1: STEVAL-POE005V1 bill of materials

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
1	4	C1, C2, C3, C4	10 nF 250 V C0805	Capacitors	Würth Elektronik	885342207010
2	1	C5	2.2 nF 2KV C1812	Capacitor	AVX	
3	4	C6, C7, C8, C9	1 nF 2KV C1812	Capacitors (not mounted)	TDK	
4	1	C10	1 nF 2KV C1812	Capacitor	AVX	
5	2	C11, C12	1 nF 250 V C0805	Capacitors	Würth Elektronik	885342207008
6	2	C13, C17	100 nF 100 V C0805	Capacitor	Würth Elektronik	885012207128
7	1	C14	10 nF 100 V C0603	Capacitor	Würth Elektronik	885012206114
8	1	C15	33 μ F 100 V C-POL8-10	Capacitor	Panasonic	EEEFK2A330P
9	2	C16, C24	4.7 μ F 100 V C1210	Capacitor	TDK	
10	1	C18	1.5 nF 100 V C0603	Capacitor	Würth Elektronik	885012206109
11	1	C19	10 nF 100 V C0805	Capacitor	Würth Elektronik	885012207122
12	2	C20, C22	2200 pF 2KV C1812	Capacitors (not mounted)	AVX	
13	1	C21	2200 pF 2KV C1812	Capacitor	AVX	
14	5	C23, C26, C46, C51, C95	1 nF 100 V C0805	Capacitor	Würth Elektronik	885012207116
15	1	C25	100nF 25V C0603	Capacitor	Würth Elektronik	885012206071
16	3	C27, C28, C30	100 V C0805	Capacitors (not mounted)	Any	
17	1	C29	33 μ F 100 V C-POL8-10	Aluminium Electrolytic capacitor	Panasonic	EEEFK2A330P
18	3	C31, C32, C33	4.7 μ F 100V C1210	Capacitors	TDK	
19	1	C34	2200 pF 2KV C1812	Capacitor	AVX	
20	1	C35	2200 pF 2KV C1812	Capacitor (not mounted)	AVX	
21	3	C36, C37, C38	47 μ F 16 V C1210	Capacitor	Würth Elektronik	885012109011
22	1	C39	1 nF 100 V C0805	Capacitor (not mounted)	Würth Elektronik	885012207116
23	3	C40, C41, C42	47 μ F 16 V C1210	Capacitor (not mounted)	Würth Elektronik	885012109011
24	1	C43	100 \pm 0F 16 V Case D	Aluminium Electrolytic capacitor	Panasonic	EEEFK1C101P

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
25	2	C44, C45	100 nF 25 V C0603	Capacitor	Wurth Elektronik	885012206071
27	1	C47	2.2 μ F 25 V C0603	Capacitor	Any	
28	1	C48	47 nF 200 V C1206	Capacitor	Any	
29	1	C49	200 V C1206	Capacitor (not mounted)	Any	
30	3	C50, C55, C58	100 nF 25 V C0603	Capacitor	Wurth Elektronik	885012206071
31	1	C52	100 pF 25 V C0603	Capacitor	Any	
32	1	C53	10 nF 25 V C0603	Capacitor	Wurth Elektronik	885012206065
33	1	C54	2200 pF 2KV C1812	Capacitor	AVX	
34	1	C56	C0603	Capacitor (not mounted)	Any	
35	1	C57	22 nF COG 25 V C0603	Capacitor (not mounted)	Any	
36	1	C59	220 pF COG 25 V C0603	Capacitor	Wurth Elektronik	885012006040
37	1	C60	22 nF COG 25 V C0603	Capacitor	Any	
38	4	C61, C62, C63, C64	33 nF 100 V C0805	Capacitor	Wurth Elektronik	885012207125
39	2	C75, C76	100 pF 50 V C0805	Capacitor	Wurth Elektronik	885012007057
40	1	C78	25 V C0603	Capacitor (not mounted)	Any	
41	1	C81	22 nF 25 V C0603	Capacitor	Wurth Elektronik	885012206067
42	3	C82, C83, C84	1 nF 25 V C0603	Capacitor	Wurth Elektronik	885012206059
43	1	C85	20 K R0805	Resistor (not mounted)	Any	
44	1	C86	100 V C0805	Capacitor (not mounted)	Any	
45	8	C87, C88, C89, C90, C91, C92, C93, C94	10 nF 1KV C1210	Capacitor (not mounted)	AVX	1210AC103KAT1A
46	1	C96	2.2 μ F 25 V C0603	Capacitor	Any	
47	1	C97	47K R0603	Resistor	Any	
48	1	C98	47K R0603	Resistor	Any	
49	1	D1	SOD-323	Diode	Any	
50	1	D2	SOD-23	Diode	Any	
51	1	D3	SOT23	Diode	Any	
52	1	D4	T2	LED Diode	Kingbright	AA3528CGSK
53	1	D5	T1	LED Diode	Kingbright	AA3528CGSK

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
54	1	D6	T0	LED Diode	Kingbright	AA3528CGSK
55	1	D7	SMA	Diode TVS	ST	SMAJ58A
56	1	D8	SMA	Transil Diode	ST	
57	1	D9	SOD-323	Diode	Any	BAS16J
58	1	D11	SOT23-D	Zener diode (not mounted)	Any	BZX84C10
59	15	D12, D13, D14, D16, D17, D20, D37, D43, D45, D46, D47, D48, D49, D50, D51	SOD-323	Diode	Any	
60	1	D15	VOUT Led LED_SMD_0805	LED Diode	Several	
61	1	D39	FAUX	LED Diode	Kingbright	AA3528CGSK
62	1	D40	STBY	LED Diode	Kingbright	AA3528CGSK
63	2	D41, D42	SMC	Diode	ST	STPS4S200S
64	1	D44	RAUX	LED Diode	Kingbright	AA3528CGSK
65	2	D52, D53	SOT-23	Dual Diode Common Anodes	Any	BAS70-05
66	1	J1	DATA & POWER INPUT RJ45-8PIN	Connector	Bell Stewart	SS-7188S-A-NF
67	1	J2	DATA OUTPUT RJ45-8PIN	Connector	Bell Stewart	SS-7188S-A-NF
68	2	J4, J6	BANANA-JACK BOC_10A	Connector	Any	
69	1	J9	AUX Front	Power Jack	Switchcraft	P-JACK-RAPC722
70	1	J10	AUX Rear	Power Jack	Switchcraft	P-JACK-RAPC722
71	1	L1	POWER INDUCTOR, 5.6 µH	Inductor	Würth Elektronik	744316560
					Coilcraft	XAL5050-562
72	2	L2, L3	220 R 805	Inductor (not mounted, mount ohm resistor)	TDK	MPZ2012S221AT000
73	1	L4	10 µH	Inductor	Würth Elektronik	7443631000
74	4	L5, L6, L7, L8	220 R 805	Ferrite beads	TDK	MPZ2012S221AT000
75	1	L9		Low Profile Power inductor	Coilcraft	LPS4018-105ML
76	1	P1	SLEEP/WKUP	Push Button	Any	
77	1	P2	SHDN	Push Button	Any	
78	2	Q1, Q5	POWERFLAT_5X6	Power MOSFET	ST	STL90N6F7
79	1	Q2	POWERFLAT_5X6	Power MOSFET (not mounted)	ST	STL90N6F7
80	2	Q3, Q8	MMBT3904LT1 SOT23_BEC_T	Switching transistor NPN (not mounted)	Any	MMBT3904LT1

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
81	1	Q4	BSC190N15NS3 POWERFLAT_5X6	Power MOSFET	Infineon	BSC190N15NS3
82	1	Q7	POWERFLAT_3X3	Switching MOSFET P channel	Any	FDMC86259P
83	2	Q9, Q12	SOT23_BEC_T	Switching transistor NPN	Any	PBSS4240T
84	2	Q10, Q11	SOT23_BEC_T	Switching transistor PNP (not mounted)	Any	PBSS5240T
85	2	Q13, Q14	SOT23	N channel MOSFET	Any	2N7002
86	8	R1, R2, R3, R4, R5, R6, R7, R8	75 R R0603	Resistor	Any	
87	1	R9	0R0 R1210	Resistor	Any	
88	1	R14	26.1 K \pm 1% R0603	Resistor	Any	
89	1	R15	R1206	Resistor (not mounted)	Any	
90	1	R16	5R6 R0805	Resistor (not mounted)	Any	
91	1	R17	22 R R0805	Resistor	Any	
92	3	R18, R19, R20	3.9 K R0603	Resistor	Any	
93	2	R21, R30	10 K R0805	Resistor (not mounted)	Any	
94	1	R22	51R1 \pm 1% R0805	Resistor	Any	
95	1	R23	36R5 \pm 1% R0805	Resistor	Any	
96	2	R24, R26	0R0 R1206	Resistor	Any	
97	3	R25, R37, R40	10 K R0603	Resistor	Any	
98	1	R27	3Mega R2010	Resistor (not mounted)	Any	
99	1	R28	0R R0603	Resistor	Any	
100	1	R29	1 K R0805	Resistor	Any	
101	1	R31	R0603	Resistor (not mounted)	Any	
102	1	R32	10 R R0805	Resistor (not mounted)	Any	
103	1	R33	5R6 R0805	Resistor (not mounted)	Any	
104	1	R34	22 R R0805	Resistor	Any	
105	2	R35, R75	1 K R0805	Resistor	Any	
106	2	R36, R38	10 R R0805	Resistor	Any	
107	1	R41	R0603	Resistor (not mounted)	Any	
108	1	R43	130 K \pm 1% R0603	Resistor	Any	

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
109	1	R44	R050 ±1% R1210	Resistor	Any	
110	1	R45	330 K ±1% R0603	Resistor	Any	
111	1	R46	91 K ±1% R0603	Resistor	Any	
112	1	R47	2 K R0603	Resistor	Any	
113	1	R48	0R ±1% R0603	Resistor	Any	
114	1	R49	0R0 R0603	Resistor	Any	
115	1	R50	390 R ±1% R0603	Resistor	Any	
116	1	R51	2 K ±1% R0603	Resistor	Any	
117	1	R52	20 k ±1% R0603	Resistor	Any	
118	1	R53	4.7 K ±1% R0603	Resistor	Any	
119	1	R54	4K64 ±1% R0603	Resistor (not mounted)	Any	
120	1	R55	5K23 ±1% R0603	Resistor	Any	
121	1	R56	10 K R0603	Resistor	Any	
122	5	R57, R58, R59, R60, R67	0R0 R0805	Resistor (not mounted)	Any	
123	1	R61	10 K R0805	Resistor	Any	
124	1	R62	5K6 R0805	Resistor (not mounted)	Any	
125	1	R69	100 k R0805	Resistor	Any	
126	2	R76, R77	0R R0805	Resistor	Any	
127	1	R78	0R R1206	Resistor	Any	
128	1	R101	±1% R0603	Resistor (not mounted)	Any	
129	1	R102	1 K R0603	Resistor	Any	
130	1	R103	12k ±1% R0603	Resistor	Any	
131	1	R104	56K ±1% R0603	Resistor	Any	
132	1	R105	330 R R0603	Resistor	Any	
133	1	R107	0R0 R0805	Resistor	Any	
134	1	R108	R100 R1210	Resistor	Any	
135	1	R114	4K7 R0805	Resistor	Any	
136	2	R115, R116	100 k R0805	Resistor	Any	
137	1	R117	4k7 R0805	Resistor	Any	
138	1	R118	0 R R0805	Resistor (not mounted)	Any	
139	1	R119	100 k R0603	Resistor (not mounted)	Any	

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
140	1	R120	4k3 R0805	Resistor	Any	
141	1	R121	20 K R0805	Resistor	Any	
142	1	R122	47 K R0805	Resistor	Any	
143	1	R123	1 k R0805	Resistor	Any	
144	1	R124	18 R R0805	Resistor	Any	
145	1	R125	47 K R0603	Resistor	Any	
146	1	R126	10 R0603	Resistor	Any	
147	1	R127	470 K R0603	Resistor	Any	
148	1	R128	10 K R0603	Resistor	Any	
149	1	R129	6K8 R0603	Resistor (not mounted)	Any	
150	1	R130	2K2 R0603	Resistor (not mounted)	Any	
151	1	R131	0R0 R0603	Resistor	Any	
152	1	R132	0R0 R0603	Resistor (not mounted)	Any	
153	1	R133	100K R0603	Resistor	Any	
154	2	RV1, RV2	1812	Surge arrester (not mounted)	TDK	B88069X9231T203
155	1	T1	POE Trafo	Data Trafo	Würth Elektronik	7490220123
					Coilcraft	WA8704-ALD
156	1	T2	RN112	Common Choke (not mounted)	Schaffner	RN 112-4-02-0M7
157	1	T3	750370225 Rev 03	Power Trafo	Würth Elektronik	
158	1	T4		Planar Power Trafo (not mounted)	Coilcraft	
159	2	T5, T6	WURTH_WE-SL5	Common Choke (not mounted)	Würth Elektronik	744272471
160	2	T7, T8	RN102	Common Choke	Schaffner	RN 102-2-02-1M1
161	14	TP1, TP3, TP5, TP7, TP8, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20	KEYSTONE_501	Test point red	Any	
162	4	TP2, TP4, TP6, TP9	KEYSTONE_501	Test point black	Any	
163	2	TP10, TP11	MILLMAX_2501	Test point turret	Any	
164	1	U1	QFN56-8X8X1-49P	Controller	ST	PM8805
165	1	U2	16QFN_3X3X0.75	Controller	ST	PM8804
166	1	U3	FOD817	Optocoupler	Fairchild	FOD817AS
167	2	U4, U23	SOT-23-5LEAD	Voltage Reference (not mounted)	ST	TS431AILT
168	5	U5, U16, U17, U18, U19	Diode TVS SMC	Transil	Any	

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
169	5	U6, U7, U8, U9, U11	Diode TVS SMC	Transil (not mounted)	Any	
170	1	U10	Diode TVS SMC	Transil	ST	SM15T68CA
171	2	U12, U24	SOT-23-3L	Voltage Reference	ST	TS2431-AILT
172	2	U20, U21	Diode TVS SMC	Transil (not mounted)	Any	
173	1	U22	FOD817	Optocoupler	Fairchild	FOD817AS

**STMicroelectronics****EVALUATION BOARD LICENSE AGREEMENT**

By using this evaluation board or kit (together with all related software, firmware, components, and documentation provided by ST, "Evaluation Board"), You ("You") are agreeing to be bound by the terms and conditions of this Evaluation Board License Agreement ("Agreement"). Do not use the Evaluation Board until You have read and agreed to this Agreement. Your use of the Evaluation Board constitutes Your acceptance of this Agreement.

LICENSE

STMicroelectronics ("ST") grants You the right to use the enclosed Evaluation Board offering limited features only to evaluate and test ST products solely for Your evaluation and testing purposes in a research and development setting. The Evaluation Board shall not be, in any case, directly or indirectly assembled as a part in any production of Yours as it is solely developed to serve evaluation purposes and has no direct function and is not a finished product. If software and/or firmware is accompanied by a separate end user license agreement ("EULA"), then such software and/or firmware shall be governed by such EULA.

EVALUATION BOARD STATUS

The Evaluation Board offers limited features allowing You only to evaluate and test the ST products. The Evaluation Board is not intended for consumer or household use. You are not authorized to use the Evaluation Board in any production system, and it may not be offered for sale or lease, or sold, leased or otherwise distributed for commercial purposes. If the Evaluation Board is incorporated in an evaluation system, the evaluation system may be used by You solely for Your evaluation and testing purposes. Such evaluation system may not be offered for sale or lease or sold, leased or otherwise distributed for commercial purposes and must be accompanied by a conspicuous notice as follows: "This device is not, and may not be, offered for sale or lease, or sold or leased or otherwise distributed for commercial purposes".

OWNERSHIP AND COPYRIGHT

Title to the Evaluation Board remains with ST and/or its licensors. You may not remove any copyright or other proprietary rights notices without prior written authorization from ST. You may make one copy of the software and/or firmware of the Evaluation Board for back up or archival purposes provided that You reproduce and apply to such copy any copyright or other proprietary rights notices included on or embedded in the software and/or firmware. You agree to prevent any unauthorized copying in whole or in part of the Evaluation Board.

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, reverse engineer, de-compile or disassemble its software and/or firmware, in whole or in part. You shall not use the Evaluation Board in any safety critical or functional safety testing, including but not limited to testing of life supporting, military or nuclear applications. ST expressly disclaims any responsibility for such usage which shall be made at Your sole risk, even if ST has been informed in writing of such usage. Unless expressly designated in writing by ST as suitable for use in testing automotive or aerospace applications, You shall not use the Evaluation Board in such testing.

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.

LIMITATION OF LIABILITIES

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.

INDEMNIFICATION

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.