

# Table 1: STEVAL-ISB044V1 bill of materials

ltem	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
1	2	C100, C114	NP 603	Ceramic capacitors	Any	C_NP_0603
2	2	C101, C103	10 μF 25 V ±20% 1206	Ceramic capacitors	Wurth Elektronik	885012108021
3	1	C102	NP 1210	Ceramic capacitors	Any	C_NP_1210
4	4	C104, C108, C212, C507	10 NF 50 V ±15% 402	Ceramic capacitors	Any	10NF_50V_X7R_0402
5	4	C106, C204, C208, C217	22 μF 25 V ±20% 1210	Ceramic capacitors	Wurth Elektronik	885012109014
6	8	C107, C110, C115, C306, C500, C501, C502, C509	100 NF 25 V ±15% 402	Ceramic capacitors	Any	100NF_25V_X5R_0402
7	4	C109, C116, C200, C211	NP 402	Ceramic capacitors	Any	C_NP_0402
8	1	C111	10 μF 10 V ±10% 805	Ceramic capacitors	Murata	GRM21BR71A106KE51L
9	4	C112, C113, C510, C512	100 NF 50 V ±15% 402	Ceramic capacitors	Any	100NF_50V_X5R_0402
10	1	C117	NP 25 V 0.1 603	Ceramic capacitors	Murata	GRM188R61E105KA12J
11	1	C202	100 NF 50 V ±5% 603	Ceramic capacitors	Murata	GRM188R71H104KA93D
12	2	C203, C207	10 µF 50 V ±10% 1206	Ceramic capacitors	Any	10UF_50V_X5R_1206
13	1	C205	100 µF 35 V ±20% D6.3_PANA_H5.8	Ceramic capacitors	Panasonic	EEEFT1V101AP
14	1	C206	5.6 NF 50 V ±15% 402	Ceramic capacitors	Any	5.6NF_50V_X7R_0402
15	1	C209	1 NF 50 V ±15% 402	Ceramic capacitors	Any	1NF_50V_X5R_0402
16	1	C213	10 PF 50 V ±15% 402	Ceramic capacitors	Any	10PF_50V_X7R_0402
17	2	C214, C215	220 NF 35 V ±15% 603	Ceramic capacitors	Any	220NF_35V_X7R_0603
18	1	C216	470 pF 50 V ±15% 402	Ceramic capacitors	Any	470pF_50V_COG_402
19	4	C300, C301, C302, C304	47NF 100 V ±5% 1206	Ceramic capacitors	ТДК	C3216C0G2A473J115AC
20	1	C303	1 NF 50 V ±15% 603	Ceramic capacitors	Any	1NF_50V_X5R_0603
21	1	C305	10 µF 6.3 V ±15% 805	Ceramic capacitors	Any	10UF_6V3_X5R_0805
22	2	C307, C505	22 NF 50 V ±15% 402	Ceramic capacitors	Any	22NF_50V_X7R_0402
23	1	C308	470PF 50 V ±15% 402	Ceramic capacitors	Any	470PF_50V_X7R_0402
24	1	C309	470NF 25 V ±15% 1206	Ceramic capacitors	Any	470NF_25V_X7R_1206



ltem	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
25	1	C310	1.5 NF 50 V ±10% 402	Ceramic capacitors	Any	1.5NF_50V_X7R_0402
26	1	C400	10 NF 100 V ±5% 805	Ceramic capacitors	ТDК	C2012C0G2A103J125AA
27	1	C401	22 NF 100 V ±5% 1210	Ceramic capacitors	ТDК	C3225C0G2A223J160AA
28	1	C402	100 PF 50 V ±5% 402	Ceramic capacitors	Any	100PF_50V_COG_0402
29	2	C403, C513	22 PF 50 V ±5% 402	Ceramic capacitors	Any	22PF_50V_COG_0402
30	1	C404	4.7 NF 50 V ±15% 402	Ceramic capacitors	Any	4.7NF_50V_X7R_0402
31	1	C405	220 NF 50 V ±10% 402	Ceramic capacitors	Any	220NF_50V_X7R_0402
32	1	C406	4.7 NF 100 V ±10% 603	Ceramic capacitors	Any	CGA3E2X7R2A472K080AA
33	1	C503	1 µF 16 V ±10% 402	Ceramic capacitors	Any	1UF_16V_X5R_0402
34	2	C504, C506	1 NF 100 V ±15% 402	Ceramic capacitors	Any	1NF_100V_X7R_0402
35	1	C508	2.2 µF 25 V ±10% 402	Ceramic capacitors	Any	2.2UF_25V_X5R_0402
36	1	C511	220 PF 50 V ±15% 402	Ceramic capacitors	Any	220PF_50V_X7R_0402
37	1	C514	2.2 NF 50 V ±15% 402	Ceramic capacitors	Any	2.2NF_50V_X7R_0402
38	3	C801, C803, C807	100 NF 50 V ±15% 603	Ceramic capacitors	Any	100NF_50V_X7R_0603
39	1	C802	10 NF 50 V ±15% 603	Ceramic capacitors	Any	10NF_50V_X7R_0603
40	2	C804, C805	47 PF 25 V ±15% 603	Ceramic capacitors	Any	47PF_25V_X5R_0603
41	1	C806	10 µF 25 V ±10% 805	Ceramic capacitors	Any	10UF_25V_X7R_0805
42	1	D100	SMM4F13A	TVS	ST	SMM4F13A-TR
43	1	D201	STPS8L30DEE POWERFLAT_L3.3_V	Diode	ST	STPS8L30DEE-TR
44	1	D202	4.3 V SOD323	Zener diode	NXP	BZX384-C4V3-AK
45	1	D300	4148WS SOD323	Diode	Any	4148WS-AK
46	1	D400	MMBD1503A SOT23	Diode	Fairchild	MMBD1503A
47	2	D500, D508	BAS521-7 DIOD_SOD523	Diode	Any	BAS521-7
48	2	D501, D504	BAV99W SOT323	Diode	NXP	BAV99W
49	1	D506	L3.2_W2.5_H1	Green LED	Wurth Elektronik	155124VS73200
50	1	D507	L3.2_W2.5_H1	Red LED	Wurth Elektronik	155124RS73200
51	1	D509	RB520S SOD523	Schottky diode	ROHM	RB520S
52	1	D800	USBLC6-2SC6 SOT23-6L	TVS/ESD/ EMI	ST	USBLC6-2SC6



Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
53	1	J100	PJ-002A	Jack	си	PJ-002A
54	1	J101	61300311121	Header	Wurth Elektronik	61300311121
55	1	J500	5-826936-0	Header	Te Connectivity	5-826936-0
56	2	J501, J700	629105150521	USB	Wurth Elektronik	629105150521
57	1	J800	48037-0001	USB	Molex	48037-0001
58	1	J801	61400416021	USB	Wurth Elektronik	61400416021
59	1	L101	2.2 µH 3.8 A ±20% L5_W5_H4	Inductor	Wurth Elektronik	74404054022
60	1	L102	NP 0.6 A ±20% L2.5_W2.0_H1.0	Inductor	Wurth Elektronik	74438323100
61	1	L200	4.7 µH 7 A ±20% L10_W10_H5	Inductor	Wurth Elektronik	7447714047
62	2	L501,L502	1 K 0.2 A 0.25 402	Ferrite	Murata	BLM15AG102SN1D
63	1	L800	120 R 0.5 A 0.25 603	Ferrite	Wurth Elektronik	74279262
64	1	M300	12 µH 8 A	Inductor	Wurth Elektronik	760 308 104 113
65	4	M600, M601, M602, M603	M320 KRSTMCZ100-	Screw	Duratool	M320 KRSTMCZ100-
66	4	M604, M605, M606, M607	D01475	Spacer	Duratool	D01475
67	4	M608, M609, M610, M611	HTSB-M3-15-5-1	Spacer	Richco	HTSB-M3-15-5-1
68	1	M619	WExxx_2xx	РСВ	Any	PCB WE - 2 layers
69	1	M620	SPACER_3MM_MP_4 A2	Spacer	Any	SPACER_3MM_MP_A6- A2
70	1	Q202	NPN-PNP SOT363	CMS	Onsemiconductors	MMDT4413
71	3	Q203,Q303,Q304	N-MOS POWERFLAT-3x3	CMS	ST	STL10N3LLH5
72	3	Q301,Q400,Q700	NPN-NPN SOT363	CMS	Onsemiconductors	BC847CDW1T1G
73	1	Q302	NPN SOT23	CMS	Diodes incorporated	BC817-40-7-F
74	1	Q500	NPN-PNP SOT363	CMS	Onsemiconductors	BC847BPDW1T1G
75	2	R100, R209	220 K 1/16 W ±1% 402	Resistors	Any	220K_1%_0402
76	1	R101	18 K 1/16 W ±1% 402	Resistors	Any	18K_1%_0402
77	1	R104	330 K 1/16 W ±1% 402	Resistors	Any	330K_1%_0402
78	1	R106	120 K 1/16 W ±5% 402	Resistors	Any	120K_5%_0402
79	1	R107	NP 1/16 W ±1% 402	Resistors	Any	1M_1%_0402
80	3	R108, R201, R705	NP 402	Resistors	Any	R_NP_0402
81	2	R109, R214	0 R 1/16 W ±5% 402	Resistors	Any	0R_5%_0402
82	3	R200, R701, R706	10 R 1/16 W ±5% 402	Resistors	VISHAY	10R_5%_0402
83	3	R202, R309, R525	1 K 1/16 W ±1% 402	Resistors	Any	1K_1%_0402



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84	2	R204, R400	470 R 1/16 W ±1% 402	Resistors	Any	470R_1%_0402
85	1	R205	0.068 R 1 W ±1% 2512	Resistors	Te Connectivity	TLM3ADR068FTE
86	1	R206	47 R 1/16 W ±5% 402	Resistors	Any	47R_5%_0402
87	2	R207,R212	3.3 K 1/16 W ±1% 402	Resistors	Any	3.3K_1%_0402
88	1	R208	75 K 1/16 W ±1% 402	Resistors	Any	75K_1%_0402
89	3	R210, R211, R308	10 K 1/16 W ±1% 402	Resistors	Any	10K_1%_0402
90	1	R213	4.7 K 1/16 W ±1% 402	Resistors	Any	4.7K_1%_0402
91	8	R215, R503, R511, R513, R527, R528, R700, R704	100 K 1/16 W ±5% 402	Resistors	Any	100K_5%_0402
92	2	R300, R301	4.7 R 1/16 W ±1% 402	Resistors	Any	4.7R_1%_0402
93	3	R302, R408, R521	1 M 1/16 W ±1% 402	Resistors	Any	1M_1%_0402
94	5	R303, R406, R409, R506, R518	100 K 1/16 W ±1% 402	Resistors	Any	100K_1%_0402
95	5	R304, R305, R306, R403, R404	470 K 1/16 W ±1% 402	Resistors	Any	470K_1%_0402
96	1	R307	0.022 R 1 W ±1% 1206	Resistors	Any	0.022R_1%_1206
97	2	R401, R411	82 K 1/16 W ±1% 402	Resistors	Any	82K_1%_0402
98	1	R402	150 K 1/16 W ±1% 402	Resistors	Any	150K_1%_0402
99	2	R405,R519	22 K 1/16 W ±1% 402	Resistors	Any	22K_1%_0402
100	2	R407,R522	47 K 1/16 W ±1% 402	Resistors	Any	47K_1%_0402
101	1	R410	2.2 K 1/16 W ±5% 402	Resistors	Any	2.2K_5%_0402
102	3	R502,R504,R505	10 K 1/16 W ±5% 402	Resistors	Any	10K_5%_0402
103	1	R507	2.7 K 1/16 W ±1% 402	Resistors	Any	2.7K_1%_0402
104	1	R510	180 K 1/16 W ±1% 402	Resistors	Any	180K_1%_0402
105	2	R512, R514	220 R 1/16 W ±5% 402	Resistors	Any	220R_5%_0402
106	1	R515	100 R 1/10 W ±5% 603	Resistors	Any	100R_5%_0603
107	1	R516	47 K ±1% 402	Thermistance	Murata	NCP15WB473F03RC
108	1	R517	1 M 1/16 W ±5% 402	Resistors	Any	1M_5%_0402



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109	1	R520	330 R 1/16 W ±5% 402	Resistors	Any	330R_5%_0402
110	1	R526	1 K 1/16 W ±5% 402	Resistors	Any	1K_5%_0402
111	3	R529, R530, R703	33 K 1/16 W ±1% 402	Resistors	Any	33K_1%_0402
112	1	R702	39 K 1/16 W ±1% 402	Resistors	Any	39K_1%_0402
113	1	R707	39 K 1/16 W ±5% 402	Resistors	Any	39K_5%_0402
114	2	R801, R807	NP ±5% 603	Resistors	Any	R_NP_0603
115	4	R802, R804, R805, R808	0 R 1/10 W ±5% 603	Resistors	Any	0R_5%_0603
116	2	R803, R806	330 R 1/10 W ±5% 603	Resistors	Any	330R_5%_0603
117	2	R809, R810	10K 1/10 W ±5% 603	Resistors	Any	10K_5%_0603
118	4	TP100, TP101, TP304, TP305	WIRE_SOLDER	Test point	Any	WIRE_SOLDER
119	8	TP102, TP200, TP506, TP507, TP508, TP509, TP510, TP511	5001	Test point	Keystone	5001
120	9	TP103, TP301, TP302, TP303, TP400, TP501, TP502, TP503, TP504	TPSMD-1MM	Test point	Any	TPSMD-1MM
121	1	U100	LDK320M-R SOT23-5	Converter	ST	LDK320M-R
122	1	U101	NP DFN10	Converter	ST	L6984
123	1	U300	MCP14700 DFN8_L3_W3	Driver	Microchip	MCP14700_DFN8
124	1	U500	STWBC_EP QFN32	Controller	ST	STWBC_EP
125	1	U501	TSV521ICT SOT353	Amplifier	ST	TSV521ICT
126	1	U801	FT232R SSOP28	Converter	FTDI	FT232R



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 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 Boards in such testing.

According to European Semiconductor Industry Association (ESIA) letter, "ESIA Response on WEEE Review (May 2008) of the Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE)"; Semiconductor products and evaluation and demonstration boards are not in the scope of the Directive 2002/96/EC of the European Parliament and of the Council on waste electrical and electronic equipment (WEEE). Consequently aforementioned products do not have to be registered nor are they subject to the subsequent obligations.

#### 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, employeremployee 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.