

Bill of materials

Table 1. AEK-MOT-3P9908M bill of materials

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
1	1	R105	R0603	SMD RESISTOR (do not populate)	Any	
2	20	R4, R6, R7, R43, R50, R70, R79, R80, R81, R82, R87, R88, R91, R93, R94, R96, R102, R103, R106, SB4	0 Ohm, R0603, 1/10 W	SMD RESISTOR (do not populate R102, SB4, R80)	Vishay	CRCW06030000Z0EA
3	5	R104, SB1, SB5, SB6, SB7	0 Ohm, R1206, 1/4W	SMD RESISTOR (do not populate)	Vishay	RCA12060000ZSEA
4	3	R64, R65, R66	0.010 Ohm, R2512, 1W, +/- 1%	SMD RESISTOR	YAGEO	PE2512FKE070R01L
5	2	R84, R85	10 Ohm, R0603, 1/10, +/- 1%	SMD RESISTOR	Vishay	CRCW060310R0FKEB
6	8	R10, R11, R29, R30, R31, R32, R107, R108	22 Ohm, R0603, 1/3W, +/- 5%	SMD RESISTOR	Vishay	CRCW060322R0JNEAHP
7	26	R8, R9, R22, R23, R24, R25, R26, R27, R28, R36, R37, R38, R39, R40, R41, R51, R53, R55, R57, R58, R60, R97, R98, R99, R100, R101	100 Ohm, R0603, 1/10W, +/- 1%	SMD RESISTOR	Vishay	CRCW0603100RFKTA
8	1	R109	120 Ohm, R0603, 1/10W, +/- 5%	SMD RESISTOR	Vishay	CRCW0603120RJNEA
9	11	R1, R12, R17, R18, R33, R35, R44, R45, R54, R56, R86	1k Ohm, R0603, 1/10, +/- 1%	SMD RESISTOR	Vishay	CRCW06031K00FKEC
10	1	R14	1.6k Ohm, R0603, 1/10W, +/- 1%	SMD RESISTOR	Vishay	CRCW06031K60FKEA
11	1	R20	2k Ohm, R0603, 1/10W, +/- 5%	SMD RESISTOR	Vishay	CRCW06032K00JNEA
12	2	R59, R92	2.2k Ohm, R0603, 1/10W, +/- 1%	SMD RESISTOR	Vishay	CRCW06032K20FKEB

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
13	2	R3, R34	3.3k Ohm, R0603, 1/10W, +/- 5%	SMD RESISTOR	Vishay	CRCW06033K30JNEA
14	1	R72	3.48k Ohm, R0603, 1/10W, +/-1%	SMD RESISTOR	Vishay	MCT06030C3481FP500
15	1	R21	4.02k Ohm, R0603, 1/10W, +/-0.5%	SMD RESISTOR	YAGEO	RT0603DRE074K02L
16	3	R73, R74, R75	4.3k Ohm, R0603, 1/10W, +/-1%	SMD RESISTOR	VISHAY	MCWR06X4301FTL
17	8	R2, R15, R16, R76, R77, R78, R89, R90	4.7k Ohm, R0603, 1/10W, +/-5%	SMD RESISTOR	VISHAY	CRCW06034K70JNEAHP
18	2	R49, R95	10k Ohm, R0603, 1/10W, +/-5%	SMD RESISTOR	VISHAY	CRCW060310K0JNEAHP
19	1	R83	12k Ohm, R0603, 1/4W, +/-1%	SMD RESISTOR	VISHAY	RCS060312K0FKEA
20	1	R42	20k Ohm, R0603, 1/10W, +/-1%	SMD RESISTOR	VISHAY	CRCW060320K0FKEB
21	3	R68, R69, R71	39k Ohm, R0603, 1/4W, +/- 1%	SMD RESISTOR	VISHAY	RCS060339K0FKEA
22	4	R5, R13, R19, R67	51k Ohm, R0603, 1/4W, +/-5%	SMD RESISTOR	PANASONIC	ERJ3RBD5102V
23	6	R46, R47, R48, R61, R62, R63	100k Ohm, R0603, 1/10W, +/-1%	SMD RESISTOR	VISHAY	CRCW0603100KFKEC
24	1	R52	1 Mohm, R0603, 1/10W, +/-5%	SMD RESISTOR (do not populate)	VISHAY	CRCW06031M00FKEAHP
25	9	C90, C91, C92, C93, C94, C95, C97, C98, C99	C0603	SMD CERAMIC CAPACITOR (do not populate)	Any	
26	2	C101, C102	18pF, C0603, 16V, +/-10%	SMD CERAMIC CAPACITOR	TDK	CGA3E2C0G1H180J080AA
27	2	C80, C81	27pF, C0603, 25V, +/-10%	SMD CERAMIC CAPACITOR	TDK	CGA3E2C0G1H270J080AA
28	2	C132, C33	47pF, C0603, 50V, +/-5%	SMD CERAMIC CAPACITOR	TDK	C1608C0G1H470J080AA
29	3	C19, C23, C27	270pF, C0603, 25V, +/-10%	SMD CERAMIC CAPACITOR	TDK	CGA3E2C0G1H271J080AA
30	1	C39	330pF, C0603, 25V, +/-10%	SMD CERAMIC CAPACITOR	WURTH ELEKTRONIK	885012006060
31	1	C44	390pF, C0603, 25V, +/-10%	SMD CERAMIC CAPACITOR	TDK	CGA3E2C0G1H391J080AA
32	11	C51, C53, C55, C57, C59, C63,	470pF, C0603, 25V, +/-10%	SMD CERAMIC CAPACITOR	WURTH ELEKTRONIK	885012006061

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
		C65, C67, C69, C71, C73				
33	3	C17, C21, C25	1nF, C0603, 25V, +/-10%	SMD CERAMIC CAPACITOR	WURTH ELEKTRONIK	885012006063
34	3	C103, C104, C127	2.2nF, C0603, 25V, +/-10%	SMD CERAMIC CAPACITOR	TDK	CGA3E2X7R1H222K080AA
35	2	C135, C136	4.7nF, C0603, 50V, +/-10%	SMD CERAMIC CAPACITOR (do not populate)	TDK	CGA3E2X7R1H472K080AA
36	2	C75, C76	10nF, C0603, 25V, +/-10%	SMD CERAMIC CAPACITOR	TDK	CGA3E2X7R2A103K080AA
37	6	C16, C18, C20, C22, C24, C26	22nF, C0603, 25V, +/-10%	SMD CERAMIC CAPACITOR	WURTH ELEKTRONIK	885012206091
38	1	C40	27nF, C0603, 25V, +/-10%	SMD CERAMIC CAPACITOR	MULTICOMP	MC0603B273K250CT
39	1	C96	47nF, C0603, 25V, +/-10%	SMD CERAMIC CAPACITOR	WURTH ELEKTRONIK	885012206093
40	1	C38	68nF, C0603, 25V, +/-10%	SMD CERAMIC CAPACITOR	WURTH ELEKTRONIK	885012206094
41	43	C6, C8, C10, C12, C15, C32, C36, C41, C43, C45, C58, C62, C64, C66, C68, C70, C72, C74, C78, C79, C82, C100, C105, C107, C109, C111, C112, C113, C115, C116, C117, C118, C119, C120, C121, C122, C123, C124, C125, C126, C129, C131, C134	100nF, C0603, 50V, +/-10%	SMD CERAMIC CAPACITOR	WURTH ELEKTRONIK	885012206095
42	4	C34, C85, C87, C89	100nF, C0805, 100V, +/-10%	SMD CERAMIC CAPACITOR	WURTH ELEKTRONIK	885012207128
43	4	C50, C52, C54, C56	470nF, C0603, 25V, +/-10%	SMD CERAMIC CAPACITOR	TDK	CGA3E3X5R1H474K080AB
44	10	C4, C5, C7, C9, C11, C13, C37, C77, C84, C130	1uF, C0805, 25V, +/-10%	SMD CERAMIC CAPACITOR	WURTH ELEKTRONIK	885012207103
45	4	C1, C2, C3, C30	1uF, C0805, 100V, +/-10%	SMD CERAMIC CAPACITOR	TDK	CGA4J3X7S2A105K125AB
46	3	C31, C42, C46	2.2uF, C0805, 16V, +/-10%	SMD CERAMIC CAPACITOR	WURTH ELEKTRONIK	885012207052
47	1	C114	3.3uF, C0805, 16V, +/-10%	SMD CERAMIC CAPACITOR	TDK	CGA4J3X7R1C335K125AD
48	2	C29, C35	3.3uF, C1206, 100V, +/-10%	SMD CERAMIC CAPACITOR	TDK	CGA5L3X7S2A335K160AB
49	2	C108, C110	4.7uF, C1206, 16V, +/-10%	SMD CERAMIC CAPACITOR	TDK	CGA5L1X7R1E475K160AC

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
50	1	C14	4.7uF, C1206, 25V, +/-10%	SMD CERAMIC CAPACITOR	WURTH ELEKTRONIK	885012208068
51	7	C33, C47, C48, C49, C60, C61, C106	10uF, C1206, 16V, +/-10%	SMD CERAMIC CAPACITOR	WURTH ELEKTRONIK	885012208041
52	1	C28	10uF, CAP. 8.3 X 6.2 - SMD, 100V, +/-20%	SMD ELECTROLYTI C CAPACITOR (ALUMINIUM)	PANASONIC	EEE2AA100UP
53	1	C128	47uF, CAP. 6.3 X 5.4 - SMD, 16V, +/-20%	SMD ELECTROLYTI C CAPACITOR (ALUMINIUM)	WURTH ELEKTRONIK	865230343004
54	3	C83, C86, C88	220uF, CAP. 12.5 x 25mm, 100V, +/-20%	ELECTROLYTI C CAPACITOR (ALUMINIUM)	WURTH ELEKTRONIK	860040878017
55	4	L5, L6, L7, L9	60 Ohm, F0603, +/-25%	SMD FERRITE BEAD	WURTH ELEKTRONIK	74279267
56	1	L1	100 Ohm, F1206	SMD FERRITE BEAD	TDK	MPZ2012S101ATD25
57	1	L4	39uH, 744770139, 3.5A, +/-20%	SMD INDUCTOR	WURTH ELEKTRONIK	744770139
58	1	D14	0805 LED	SMD DIODE LED - RED	WURTH ELEKTRONIK	150080RS75000
59	8	D3, D4, D5, D8, D11, D12, D13, D19	0805 LED	SMD DIODE LED - GREEN	WURTH ELEKTRONIK	150080GS75000
60	1	D1	STPS5L60S, DO-214AB	SMD DIODE SCHOTTKY	ST	STPS5L60S
61	1	D2	SMA6T56AY, DO-214AC	SMD DIODE TVS	ST	SMA6T56AY
62	1	D6	STPS2L60A, DO-214AC	SMD DIODE SCHOTTKY	ST	STPS2L60A
63	6	D7, D9, D10, D15, D17, D18	STPS2H100A, DO-214AC	SMD DIODE SCHOTTKY	ST	STPS2H100A
64	1	D16	STPS2L40, DO-214AA	SMD DIODE SCHOTTKY	ST	STPS2L40
65	6	DZ1, DZ2, DZ3, DZ4, DZ5, DZ6	BZM55C12-TR, MICRO-MELF	SMD DIODE ZENER 12V	VISHAY	BZM55C12-TR
66	1	Y1	7B-12.000MAAJ -T	SMD CRYSTAL OSCILLATOR 12MHz	WURTH ELEKTRONIK	830055999
67	1	Y2	XTAL003210, HC49/4H SMX	SMD CRYSTAL OSCILLATOR 12MHz	WURTH ELEKTRONIK	830003210
68	1	S3	TSB06339-050- 4, (180, KTH55150KA	SMD TACT SWITCH	ADIMPEX	TSB06339-050-4 (180
69	1	S1	MMS 228 T (SPDT)	SMD SLIDE SWITCH - On- On	KNITTER- SWITCH	MMS 228 T

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
70	8	TP1, TP2, TP3, TP4, TP5, TP6, TP15, TP35	TEST POINT	RING TEST POINT	Any	
71	2	J2, J4	p. 2.54mm, SIP3	HEADER 3X1	WURTH ELEKTRONIK	61300311121
72	1	J3	p. 2.54mm, HEADER 7X2	HEADER 7X2	WURTH ELEKTRONIK	61301421121
73	1	J5	p. 2.54mm, 61900211121	POLARIZED HEADER 2X1	WURTH ELEKTRONIK	61900211121
74	2	P3, P4	p. 2.54mm, SIP5	POLARIZED HEADER 5X1	WURTH ELEKTRONIK	61900511121
75	1	X1	p. 2.54mm, IDC14	BOXED HEADER 7X2	WURTH ELEKTRONIK	61201421621
76	1	J1	p. 5.08mm, CON2	CONNECTOR CART 2 POLES	WURTH ELEKTRONIK	691213510002
77	1	P2	p. 5.08mm, CON3	CONNECTOR CART 3 POLES	WURTH ELEKTRONIK	691213510002
78	1	P1	MINI USB MOLEX	SMD MINI-USB CONNECTOR	WURTH ELEKTRONIK	65100516121
79	6	Q2, Q3, Q4, Q5, Q6, Q7	STD105N10F7A G, DPAK	SMD MOSFET N-CHANNEL	ST	STD105N10F7AG
80	1	T1	BCP68T1G, SOT-223	SMD TRANSISTOR NPN	ON SEMICNDUCTOR	BCP68T1G
81	1	U19	LD1117S33TR, SOT-223	LDO VOLTAGE REGULATOR 3.3V	ST	LD1117S33TR
82	1	U13	L7987L, HTSSOP-16	Switching Voltage Regulators Power Conversion	ST	L7987L
83	1	U2	L4995RJ, PowerSSO-12	LDO VOLTAGE REGULATOR 5V	ST	L4995RJ
84	1	U3	L4995AJ, PowerSSO-12	LDO VOLTAGE REGULATOR 5V	ST	L4995AJ
85	1	U14	L9908, TQFP48	GDU FOR 3 PHASE MOTOR	ST	L9908
86	1	U16	SPC560P50L5, LQFP144	MICROCONTR OLLER	ST	SPC560P50L5
87	1	U20	STM6315RBW13F, SOT-143	SUPERVISORY CIRCUIT OPEN DRAIN MICROPROCE SSOR RESET	ST	STM6315RBW13F
88	1	U1	FT2232HL-REEL, QFP64	INTERFACE BRIDGES, USB TO UART	FTDI	FT2232HL-REEL
89	1	U9	USBLC6-2P6, SOT-666	ESD Suppressors / TVS Diodes High Speed Interface	ST	USBLC6-2P6

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
				Protection Low Cap		
90	1	U18	M93S46-WMN6TP, SO-8	EEPROM 5.5V 1K (64 X 16) SERIAL EEPROM SO-8	ST	M93S46-WMN6TP
91	7	U4, U5, U6, U7, U8, U10, U12	SN74LVC1T45D CKT, SC-70	TRANSCEIVE	TEXAS INSTRUMENTS	SN74LVC1T45DCKT
92	1	U11	MCP2562FD-E/SN, SO-8	CAN BUS TRANSCEIVER	MICROCHIP	MCP2562FD-E/SN
93	1		DF45L024048-A2	BLCD Motor	NANOTEC	DF45L024048-A2
94	1		61900511621	WR-WTB 2.54 mm Female Terminal Housing	WURTH ELEKTRONIK	61900511621

Evaluation board license agreement

Important: All information on this document is subject to this 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.

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