

Table 1: STEVAL-IPFC02V1 bill of materials

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
1	1	-	STEVAL-IPFC02P1	Power board	ST	not available separately
2	1	-	STEVAL-IPFC02C1	Control board	ST	not available separately
3	1	-	STEVAL-IPFC01A1	Adapter board	ST	not available separately

Table 2: STEVAL-IPFC02P1 bill of materials

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
1	1	C100	100nF, 275VAC, ±20%	Safety Capacitors MPP L/ S=15mm, Radial, 17.5x5x12mm, LS 15mm	Panasonic	ECQ-UAAF104MA
2	1	C101	0.1µF, 25V, ±10%	CAP CER X7R 0603, 0603 (1608 Metric)	KEMET	C0603C104K3RACTU
3	1	C102	1nF, 760VAC, ±20%	CAP CER Y5U RADIAL, Radial, Disc	Vishay BC Components	VY1102M35Y5UG63V0
4	4	C110, C111, C309, C310	100pF, 50V, ±5%	CAP CER C0G/NP0 0603, 0603 (1608 Metric)	Murata Electronics North America	GRM1885C1H101JA01D
5	3	C200, C204, C208	470nF, 25V, ±10%	CAP CER X7R 0603, 0603 (1608 Metric)	Würth Electronics Inc.	885012206075
6	3	C201, C202, C203	470µF, 25V, ±20%	Cap Pol Radial (Electrolytic); 3.50 mm C X 8.00 mm Dia X 20.00 mm H body, Radial, 8x20mm	Any	-
7	1	C205	10µF, 16V	Cap Pol Radial (Electrolytic); 1.50 mm C X 4.00 mm Dia X 7.00 mm H body, Radial, 4x7mm	-	-
8	2	C206, C207	4.7µF, 50V, ±20%	CAP CER X7R 1210, 1210 (3225 Metric)	Taiyo Yuden	UMK325B7475MM-T
9	1	C209	4.7nF, 25V, ±10%	CAP CER X7R 0603, 0603 (1608 Metric)	Würth Electronics Inc.	885012206063
10	1	C210	1nF, 25V, ±10%	CAP CER X7R 0603, 0603 (1608 Metric)	Samsung Electro-Mechanics	CL10B102KA8NNNC
11	1	C300	0.56µF, 630Vdc, ±10%	CAP FILM RAD, Radial, 26.5x6x15mm LS 22.5	EPCOS (TDK)	B32673P6564K000
12	2	C301, C302	680µF, 450V, ±20%	ALU SNAP IN, Radial, Can - Snap-In	KEMET	ALA7DA681DF450

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
13	1	C304	1 μ F, 277V-a.c., 520V c.c., \pm 10%	CAP FILM RADIAL, Radial	EPCOS (TDK)	B32673Z5105K000
14	2	C305, C314	10nF, 50V, \pm 10%	CAP CER X7R 0603, 0603 (1608 Metric)	Murata Electronics North America	GRM188R71H103KA01D
15	7	C306, C313, C315, C316, C317, C319, C320	0.1 μ F, 50V, \pm 10%	CAP CER X7R 0603, 0603 (1608 Metric)	KEMET	C0603C104K5RACTU
16	2	C307, C308	100pF, 630Vdc, \pm 5%	CAP FILM RADIAL, Radial	KEMET	PFR5101J630J11L4BULK
17	4	C311, C312, C322, C323	0.1 μ F, 50V, \pm 5%	CAP CER X7R 0603, 0603 (1608 Metric)	KEMET	C0603C104J5RACTU
18	2	C318, C321	150pF, 50 VDC, \pm 1%	Multilayer Ceramic Capacitors MLCC - SMD/SMT 50volts 150pF C0G 1%, 0603 (1608 metric)	KEMET	C0603C151F5GACTU
19	9	D100, D203, D302, D303, D304, D305, D306, D307, D308	STPS1L30A, 30V, 1A	DIODE SCHOTTKY SMA, DO-214AC, SMA	ST	STPS1L30A
20	1	D101	50A, 1kV, 50A	BRIDGE RECT 1PHASE GBJ, 4- SIP, GBJ	Micro Commercial Co	GBJ5010-BP
21	1	D102	GF1M, 1kV, 1A	DIODE GEN PURP SMA, DO-214AC, SMA	ON Semiconductor	GF1M
22	2	D103, D104	70V, 70mA (DC)	DIODE ARRAY SCHOTTKY SOT23-3, TO-236-3, SC-59, SOT-23-3	ST	BAS70-04FILM
23	1	D200	220V	TRANSIL DIODE SMB, DO-214AA, SMB	ST	SM6T220A
24	1	D201	150V, 2A	DIODE SCHOTTKY SMA, DO-214AC, SMA	ST	STPS2150A
25	1	D202	600V, 1A	Ultrafast high voltage rectifier SMA, DO-214AC, SMA	ST	STTH1L06A
26	3	D204, D309, D310	100V, 150mA (DC)	DIODE SCHOTTKY MINMLF, DO-213AA (Glass)	ST	TMMBAT46FILM
27	2	D300, D301	650V, 12A	DIODE SCHOTTKY TO220AC, TO-220-2	ST	STPSC12065D
28	1	F100	20A 250Vac, 250VAC 72VDC, 20A	FUSE BOARD MNT, 0.390" L x 0.120" W x 0.125" H (9.80mm x 3.05mm x 3.18mm)	Bel Fuse Inc.	SMM 20

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
29	1	ISO100	TLP385(E)	TRANSISTOR OPTOCOUPLER; 4-PIN SO, 6-SOIC (0.295", 7.50mm Width), 4 Leads	Toshiba Semiconductor and Storage	TLP385(E)
30	1	J100	VIN	SCREW TERM BLOCK PCB 3POS 7.5MM GREEN	Phoenix Contact	1717033
31	1	J300	VOUT	SCREW TERM BLOCK PCB 2POS 7.62MM	RS Pro	7901130
32	1	J301	con40-2x20-strip-female	CONN RCPT 40POS .100" DUAL GOLD	Samtec Inc.	ESQ-120-37-G-D
33	1	L100	2x4.5mH, 18A	CMC 4.5MH 18A 2LN TH, Vertical, 4 PC Pin	Würth Electronics Inc.	7448051804
34	1	L200	4.7µH, 1.9A, ±20%	Unshielded Wire-wound SMD Inductor 4.7 µH ±20% Wire-Wound 1.9A Idc, SMD 4.3x4x3.2mm	RS PRO	7409372
35	1	L201	11W, 80kHz, 2.2mH, 13V, 0.47A, ±10%	Switch Mode Transformer, Through hole	AQ Magnetica OR Würth Elektronik	2198.0037 OR 750318021
36	2	L300, L301	350µH 12A _{PK} 1kW	Power inductor, through hole	AQ Magnetica OR Würth Elektronik	2097.0016 OR 750318020
37	2	Q100, Q302	20V, 6A	MOSFET N-CH 8SOIC, 8-SOIC (0.154", 3.90mm Width)	ST	STS6NF20V
38	2	Q300, Q301	650V, 40A, 168W	IGBT TO247, TO-247-3	ST	STGW20H65FB
39	1	R100	22, 1/4W, ±1%	CHIP RESISTOR SMD 1206, 1206 (3216 Metric)	-	-
40	1	R101	150, 5W, ±5%	RES RADIAL, Radial	TE Connectivity Passive Product	SQMW5150RJ
41	3	R102, R201, R337	33k, 0.1W, 1/10W, ±1%	CHIP RESISTOR SMD 0603, 0603 (1608 Metric)	-	-
42	2	R103, R104 (not mounted)	470k, 0.25W, 1/4W, ±1%	RES SMD 1206, 1206 (3216 Metric)	-	-
43	3	R105, R108, R109	33k, 0.25W, 1/4W, ±1%	CHIP RESISTOR SMD 1206, 1206 (3216 Metric)	-	-
44	1	R106	100k, 0.25W, 1/4W, ±1%	CHIP RESISTOR SMD 1206, 1206 (3216 Metric)	-	-
45	2	R107, R111	10M, 0.1W, 1/10W, ±1%	CHIP RESISTOR SMD 0603, 0603 (1608 Metric)	-	-

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
46	1	R110	47k, 0.1W, 1/10W, ±1%	CHIP RESISTOR SMD 0603, 0603 (1608 Metric)	-	-
47	7	R112, R113, R121, R122, R303, R306, R314	470k, 0.25W, 1/4W, ±1%	CHIP RESISTOR SMD 1206, 1206 (3216 Metric)	-	-
48	2	R114, R123	3k, 0.1W, 1/10W, ±0.1%	RES SMD 0603, 0603 (1608 Metric)	Panasonic Electronic Components	ERA-3AEB302V
49	2	R200, R335	22, 0.25W, 1/4W, ±1%	CHIP RESISTOR SMD 1206, 1206 (3216 Metric)	-	-
50	1	R202	12k, 0.1W, 1/10W, ±1%	CHIP RESISTOR SMD 0603, 0603 (1608 Metric)	-	-
51	2	R203, R206	24k, 0.1W, 1/10W, ±1%	CHIP RESISTOR SMD 0603, 0603 (1608 Metric)	-	-
52	2	R204, R205	2.7, 0.5W, 1/2W, ±1%	RES SMD 1206, 1206 (3216 Metric)	Susumu	RL1632R-2R70-F
53	1	R207	3.3k, 0.25W, 1/4W, ±1%	CHIP RESISTOR SMD 1206, 1206 (3216 Metric)	Any	-
54	1	R300	40mΩ, 7W, ±1%	RES 2818, Nonstandard	Vishay Dale	WSHM2818R0400FEA
55	8	R301, R302, R321, R322, R333, R339, R341, R344	100, 0.1W, 1/10W, ±1%	CHIP RESISTOR SMD 0603, 0603 (1608 Metric)	-	-
56	2	R304, R305	1k, 0.1W, 1/10W, ±1%	CHIP RESISTOR SMD 0603, 0603 (1608 Metric)	-	-
57	2	R307, R308	10k, 0.1W, 1/10W, ±0.1%	RES SMD 10K OHM 0603, 0603 (1608 Metric)	Panasonic Electronic Components	ERA-3AEB103V
58	2	R309, R319	56k, 0.1W, 1/10W, ±0.1%	RES SMD 56K OHM 0603, 0603 (1608 Metric)	Panasonic Electronic Components	ERA-3AEB563V
59	2	R310, R311	33, 0.25W, 1/4W, ±1%	CHIP RESISTOR SMD 1206, 1206 (3216 Metric)	-	-
60	2	R312, R313	10, 0.25W, 1/4W, ±1%	CHIP RESISTOR SMD 1206, 1206 (3216 Metric)	-	-
61	2	R315, R317	10k, 0.25W, 1/4W, ±1%	CHIP RESISTOR SMD 1206, 1206 (3216 Metric)	-	-
62	2	R316, R318	10mΩ, 2W, ±1%	RES 3264 current sensing, 2512 (6432 Metric)	Ohmite	MCS3264R010FER
63	1	R320	6mΩ, 3W, ±1%	RES 2512, 2512 (6432 Metric)	Panasonic Electronic Components	ERJ-MS4HF6M0U

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
64	1	R323	3.3k, 0.1W, 1/10W, ±0.1%	RES SMD 0603, 0603 (1608 Metric)	Panasonic Electronic Components	ERA-3AEB332V
65	2	R324, R330	82k, 0.1W, 1/10W, ±0.1%	RES SMD 0603, 0603 (1608 Metric)	Panasonic Electronic Components	ERA-3AEB823V
66	6	R325, R327, R334, R340, R342, R345	2.2K, 0.1W, 1/10W, ±0.1%	RES SMD 0603, 0603 (1608 Metric)	Panasonic Electronic Components	ERA-3AEB222V
67	1	R326	0, 0.1W, 1/10W, ±1%	CHIP RESISTOR SMD 0603, 0603 (1608 Metric)	-	-
68	1	R328 (not mounted)	*, 0.1W, 1/10W, ±1%	CHIP RESISTOR SMD 0603, 0603 (1608 Metric)	-	-
69	1	R329	470, 0.1W, 1/10W, ±1%	CHIP RESISTOR SMD 0603, 0603 (1608 Metric)	-	-
70	4	R331, R336, R343, R346	62k, 0.1W, 1/10W, ±0.1%	RES SMD 0603, 0603 (1608 Metric)	Panasonic Electronic Components	ERA-3AEB623V
71	1	R332	11k, 0.1W, 1/10W, ±1%	CHIP RESISTOR SMD 0603, 0603 (1608 Metric)	-	-
72	1	R338	10k, 0.1W, 1/10W, ±1%	CHIP RESISTOR SMD 0603, 0603 (1608 Metric)	-	-
73	2	R347, R348	0, 0.25W, 1/4W, ±1%	CHIP RESISTOR SMD 1206, 1206 (3216 Metric)	-	-
74	2	R349, R350	510, 0.1W, 1/10W, ±1%	CHIP RESISTOR SMD 0603, 0603 (1608 Metric)	-	-
75	1	RL100	250Vac-16A	RELAY GEN PURPOSE SPDT 16A 18V	TE Connectivity Potter & Brumfield Relays	RT314018
76	1	RT1	16Ω, 1.7A, ±20%	ICL 8.5MM, Diameter 8.5mm	EPCOS (TDK)	B57153S0160M000
77	1	RV100	S14K275, 275VAC	VARISTOR 430V 4.5KA DISC 14MM, Disc 14mm	EPCOS (TDK)	B72214S0271K101
78	1	U200	5V, 250mA	IC REG LINEAR 8SO, 8-SOIC (0.154", 3.90mm Width)	ST	L4931ABD50-TR
79	1	U201	-	IC PRIMARY SWITCHING REG 16SOIC, 16-SOIC (0.154", 3.90mm Width)	ST	ALTAIR05T-800
80	4	U300, U301, U303, U304	-	IC OPAMP GP 8MHZ RRO SOT23-5, SC-74A, SOT-753	ST	TSV911ILT

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
81	1	U302	-	SENS TEMP ANLG VOLT SOT-323-5, 5-TSSOP, SC-70-5, SOT-353	ST	STLM20W87F
82	2	U305, U306	4A	IC MOSFET DVR DUAL 8SOIC, 8-SOIC (0.154", 3.90mm Width)	ST	PM8834
83	2	Y100, Y101	2.2nF, 250VAC, ±20%	CAP CER RADIAL, Radial, Disc	Murata Electronics North America	DE2E3KY222MA3BM02F
84	1	Y300	LAM 4 K 150 12, 12V	Heatsink 40 x 40 x150 mm, with axial fan 12V, integrated	FISCHERELEKT	LAM 4 K 150 12
85	5	Y3 lock-in-retaining springs	THFU 1	retaining springs	Fischer Elektronik	THFU 1
86	1	Thermal Film 140 x 25 mm	-	Thermal conductivity Thin film 140 X 25 mm	BERGQUIST	BP100-0.005-00-12/12
87	4	Spacer	D01496	Hex Threaded Spacer	DURATOOL	D01496
88	4	Nut	DTRNNE 34814 M3	M3 Hexagon Full Nut Double Chamfer	TR FASTENINGS	DTRNNE 34814 M3
89	2	Screws	M3 x 10 mm	Steel screw	TR FASTENINGS	M310 PRSTMCZ100-
90	2	Steel washers	M3	Steel Plain M3 Washer	ANY	ANY

Table 3: STEVAL-IPFC02C1 bill of materials

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
1	1	C1	4.7µF, 16V, ±10%	X7R Ceramic Capacitor, SMD 0805	ANY	ANY
2	5	C2, C5, C18, C24, C32	100nF, 50V, ±10%	X7R Ceramic Capacitor, SMD 0603	ANY	ANY
3	2	C3, C4	10nF, 25V, ±10%	X7R Ceramic Capacitor, SMD 0603	AVX	06033C103KAT2A
4	2	C7, C23	1µF, 25V, ±10%	X7R Ceramic Capacitor, SMD 0603	ANY	ANY
5	2	C8, C40	100pF, 50V, ±5%	C0G Ceramic Capacitor, SMD 0603	ANY	ANY
6	2	C9, C29	150pF, 50V, ±5%	C0G Ceramic Capacitor, SMD 0604	ANY	ANY
7	2	C10, C37	33pF, 50V, ±5%	C0G Ceramic Capacitor, SMD 0603	ANY	ANY
8	2	C11, C42	1nF, 50V, ±5%	C0G Ceramic Capacitor, SMD 0603	ANY	ANY

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
9	1	C12	15nF, 50V, ±10%	X7R Ceramic Capacitor, SMD 0603	ANY	ANY
10	3	C13, C38, C39	220nF, 50V, ±10%	X7R Ceramic Capacitor, SMD 0603	ANY	ANY
11	1	C27	820pF, 50V, ±5%	COG Ceramic Capacitor, SMD 0603	ANY	ANY
12	1	C28	2.2 nF, 50V, ±5%	C0G Ceramic Capacitor, SMD 0603	ANY	ANY
13	1	C30	15pF, 50V, ±5%	COG Ceramic Capacitor, SMD 0603	ANY	ANY
14	1	C31	8.2nF, 50V, ±10%	X7R Ceramic Capacitor, SMD 0603	ANY	ANY
15	1	C35	1.5nF, 50V, ±5%	C0G Ceramic Capacitor, SMD 0603	ANY	ANY
16	1	C36	330pF, 50V, ±5%	COG Ceramic Capacitor, SMD 0603	ANY	ANY
17	1	C41 (not mounted)	1nF, 50V, ±5%	X7R Ceramic Capacitor, SMD 0603	ANY	ANY
18	1	D1	RED, 1,85, 20mA	High efficiency red diffused LED 3mm, SMD 0805	Kingbright	KP-2012SRC-PRV
19	1	D2	GREEN, 2.1V, 20mA	High efficiency green diffused LED 3mm, SMD 0805	Kingbright	KPHCM-2012CGCK
20	1	D3	BAS70-05, 70V, 70mA	Low capacitance, series inductance and resistance Schottky diode, SOT23	ST	BAS70-05FILM
21	1	J1	CON40A, 250Vac, 3A	Right angle PIN header connector, dual row, T. H. lead spacing 2.54 x 2.54mm	Würth Elektronik	61304021021
22	2	J2, J5	CON4, 250Vac, 3A	T. H. PIN Header Connector, single row, T. H. lead spacing 2.54mm	Würth Elektronik	61300411121
23	1	L1	120 Ω-100MHZ, 500 mA, ±25%	Ferrite, SMD 0603	Würth Elektronik	74279262
24	2	R1, R2	1.8k, 50V, 0.1, ±1%	Metal film resistor, SMD 0603	ANY	ANY
25	6	R4, R8, R9, R21, R22, R32	10k, 50V, 0.1W, ±1%	Metal film resistor, SMD 0603	ANY	ANY
26	4	R7, R14, R15, R54	10k, 50V, 0.1W, ±0.1%	Metal film resistor, SMD 0603	Panasonic	ERA3APB103V

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
27	2	R6, R35	3.3k, 50V, 0.1W, ±1%	Metal film resistor, SMD 0603	ANY	ANY
28	1	R20	27k, 50V, 0.1W, ±1%	Metal film resistor, SMD 0603	ANY	ANY
29	1	R23	7.5k, 50V, 0.1W, ±1%	Metal film resistor, SMD 0603	ANY	ANY
30	1	R24	4.3k, 50V, 0.1W, ±1%	Metal film resistor, SMD 0603	ANY	ANY
31	1	R25	270K, 50V, 0.1W, ±1%	Metal film resistor, SMD 0603	ANY	ANY
32	2	R26, R27	56k, 50V, 0.1W, ±1%	Metal film resistor, SMD 0603	ANY	ANY
33	1	R28	5.6k, 50V, 0.1W, ±1%	Metal film resistor, SMD 0604	ANY	ANY
34	4	R29, R31, R40, R44	0, 50V, 0.1W, ±1%	Metal film resistor, SMD 0603	ANY	ANY
35	1	R30	22k, 50V, 0.1W, ±1%	Metal film resistor, SMD 0603	ANY	ANY
36	5	R33, R41, R45, R48, R55 (not mounted)	(not mounted), 50V, 0.1W, ±1%	Metal film resistor, SMD 0603	ANY	ANY
37	1	R34	15k, 50V, 0.1W, ±1%	Metal film resistor, SMD 0603	ANY	ANY
38	2	R36, R50	4.7k, 50V, 0.1W, ±1%	Metal film resistor, SMD 0603	ANY	ANY
39	1	R37	2.7k, 50V, 0.1W, ±1%	Metal film resistor, SMD 0603	ANY	ANY
40	2	R42, R43	100k, 50V, 0.1W, ±1%	Metal film resistor, SMD 0603	ANY	ANY
41	1	R49	1.5k, 50V, 0.1W, ±1%	Metal film resistor, SMD 0603	ANY	ANY
42	2	R52, R53	1k, 50V, 0.1W, ±1%	Metal film resistor, SMD 0603	ANY	ANY
43	1	U1	5V	Digital controller, TSSOP38	ST	STNRGPF02
44	1	U4	5V	Single rail to rail I/O 8MHz OpAmp, SOT23-5L	ST	TSV911ILT
45	1	U5	5V	Low power I/O rail to rail dual OpAmp, SO8	ST	LMV358IDT

Table 4: STEVAL-IPFC01A1 bill of materials

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
1	1	D400	LED	High Efficiency Red LED 3mm, through hole	Kingbright	L-7104ID
2	1	J400	CON4	4-contact 2.54mm female SIL Board-to-board Socket, through hole	HARWIN	M20-7890446

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
3	1	J401	CON6	Right angle male connector 1 way 6 circuits 2.54mm, through hole	ANY	ANY
4	1	Q400	40 V, 0.6 A	General Purpose Transistors, NPN Silicon	ON Semiconductor	SMMBT2222ALT1G
5	1	R401	330	Metal film resistor, 0805	ANY	ANY
6	1	R402	470k	Metal film resistor, 0805	ANY	ANY
7	1	R403	1K	Metal film resistor, 0805	ANY	ANY

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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.

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 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.