

Bill of materials

Table 1. STEVAL-VOICE-UI bill of materials

Item	Q.ty	Ref.	Part/Value	Description	ManuFacterer	Order code
1	1	Table 2. STEVAL\$M25R16BA	-	Main board	ST	Not available for separate sale
2	1	Table 3. STEVAL\$L\$D25R16BA	-	Reader expansion board	ST	Not available for separate sale

Table 2. Main board bill of materials

Item	Quantity	Ref.	Part/value	Description	Manufacturer	Order code
1	6	C1, C10, C13, C17, C41, C56	1uF 25V ±10% X5R 0603	CAPACITOR	Any	Any
2	1	C2	2.2uF 16V ±10% X7R 1206	CAPACITOR	Any	Any
3	1	C3	10nF 16V ±10% X7R 0402	CAPACITOR	Any	Any
4	30	C4, C5, C6, C7, C8, C11, C12, C14, C15, C16, C19, C22, C23, C24, C25, C26, C27, C28, C31, C35, C36, C38, C42, C43, C44, C45, C46, C47, C50, C51	100nF 16V ±10% X7R 0402	CAPACITOR	Any	Any
5	6	C9, C37, C48, C49, C54, C55	10uF 25V ±10% X7R 0603	CAPACITOR	Any	Any
6	2	C18, C33	4.7nF 50V ±5% NPO 0402	CAPACITOR	Any	Any
7	4	C20, C21, C30, C32	10pF 50V ±5% NPO 0402	CAPACITOR	Any	Any
8	1	C29	20pF 0402 NOT FITTED	CAPACITOR	Any	Any
9	1	C34	4.7uF 25V ±10% X7R 0603	CAPACITOR	Any	Any
10	2	C39, C40	100nF 0402 NOT FITTED	CAPACITOR	Any	Any
11	2	C52, C53	4.7pF ±0.25pF 50V NPO 0402	CAPACITOR	Any	Any
12	5	D1, D2, D3, D4, D5	BAT60JFILM, SOD323	10 V general purpose signal Schottky diode	ST	BAT60JFILM
13	1	J1		MICRO USB	MOLEX	AB 47590-0001
14	1	J2		MINI USB B	NELTRON	5075BMR-05-SM
15	1	J4		CONNECTOR	SAMTEC	SSW-114-02-G-S-RA
16	2	J5, J6		CONNECTOR	SAMTEC	SSW-105-02-G-S-RA

Item	Quantity	Ref.	Part/value	Description	Manufacturer	Order code
17	6	JP1, JP2, JP3, JP10, JP13, JP15		CONNECTOR 1x2Pts	SAMTEC	TSW-102-07-G-S
18	1	JP4		CONNECTOR 1x4Pts	SAMTEC	TSW-104-07-G-S
19	1	JP5		CONNECTOR NOT FITTED	SAMTEC	TSW-105-07-G-S
20	4	JP6, JP7, JP8, JP9		CONNECTOR 1Pt	SAMTEC	TSW-101-07-G-S
21	1	JP11		CONNECTOR 2x4Pts	SAMTEC	TSW-104-07-G-D
22	1	JP12		CONNECTOR	SAMTEC	CES-107-01-L-D
23	1	JP14		CONNECTOR 1x3Pts & 1x1PT	SAMTEC	TSW-1xx-07-G-S
24	1	JP16		CONNECTOR 1x3Pts	SAMTEC	TSW-103-07-G-S
25	2	L1, L3		EMI FERRITE BEAD 600 Ohms	WURTH	742792042
26	3	L2, L6, L8		COMMON MODE FILTER	WURTH	744232090
27	2	L4, L7		EMI FERRITE BEAD 300 Ohms	WURTH	742792641
28	1	L5		FERRITE CHIP BEAD	TAI TECH	FCM1608KF-601T03
29	1	L9		SELF	MURATA	BLM18EG471SN1D
30	1	LCD1		LCD MODULE	SHENZHEN FRIDA	FRD240C48004-A-RT
31	1	LD1		Green LED	EVERLIGHT	19-21SYGC/S530-E1/TR8
32	1	LD2		Yellow LED	VISHAY	TLMY1000-GS08
33	1	LD3		Orange LED	EVERLIGHT	19-217/S2C-AM2N2VY/3T
34	1	LD4		Bicolor LED	AVAGO	HSMF-A201-A00J1
35	3	LD6, LD7, LD8		Green LED NOT FITTED	EVERLIGHT	19-21SYGC/S530-E1/TR8
36	5	PEG1, PEG2, PEG3, PEG4, PEG5		SELF ADHESIVE RUBBER BUMPER	3M	SJ5306
37	1	Q1	SOT23	Transistor	UNISONIC TECH.	MMBT9013L-G-AE3
38	1	Q2	STR2P3LLH6, SOT-23	P-Channel 30 V, 0.048 Ohm typ., 2 A STripFET H6 power MOSFET in a SOT-23 package	ST	STR2P3LLH6
39	27	R1, R3, R9, R12, R13, R14, R15, R20, R21, R23, R27, R41, R42, R46, R47, R49, R50, R53, R54, R56, R71, R72, R77, R78, R86, R104, R113	0R 0402	RESISTOR	Any	Any

Item	Quantity	Ref.	Part/value	Description	Manufacturer	Order code
40	2	R2, R110	510R ±1% 0402	RESISTOR	Any	Any
41	18	R4, R25, R33, R39, R43, R48, R51, R52, R62, R65, R67, R70, R74, R75, R83, R97, R109, R122	0402	RESISTOR NOT FITTED	Any	Any
42	5	R5, R7, R36, R37, R103	10R ±1% 0402	RESISTOR	Any	Any
43	1	R6	47R ±1% 0402	RESISTOR	Any	Any
44	6	R8, R40, R118, R119, R120, R121	0R 0402	RESISTOR NOT FITTED	Any	Any
45	2	R10, R38	1M ±1% 0402	RESISTOR	Any	Any
46	1	R11	360R ±1% 0402	RESISTOR	Any	Any
47	6	R16, R105, R106, R107, R108, R114	1K5 ±1% 0402	RESISTOR	Any	Any
49	16	R18, R24, R26, R63, R64, R66, R68, R69, R73, R76, R79, R80, R81, R82, R89, R112		RESISTOR 4K7 1% 0402	Any	Any
48	4	R17, R90, R91, R93	680R ±1% 0402	RESISTOR	Any	Any
50	4	R19, R28, R30, R117	100R ±1% 0402	RESISTOR	Any	Any
51	1	R22	4.3 Ohms ±1% 0402	RESISTOR	Any	Any
52	1	R29	100R 0402	RESISTOR NOT FITTED	Any	Any
53	8	R31, R32, R35, R55, R84, R85, R87, R88	100K ±1% 0402	RESISTOR	Any	Any
55	2	R44, R96		RESISTOR 47K 1% 0402	Any	Any
54	9	R34, R94, R95, R98, R99, R100, R101, R102, R115	10K ±1% 0402	RESISTOR	Any	Any
56	1	R45	15K ±1% 0402	RESISTOR	Any	Any
57	5	R57, R58, R59, R60, R61	220R ±1% 0402	RESISTOR	Any	Any
58	1	R92	4K7 ±1% 0402	RESISTOR NOT FITTED	Any	Any
59	1	R111	2K7 ±1% 0402	RESISTOR	Any	Any
60	1	R116	36K ±1% 0402	RESISTOR	Any	Any
61	14	SB1, SB2, SB3, SB4, SB5, SB6, SB7, SB8, SB9, SB10, SB11, SB12, SB13, SB14	0603	SOLDER BRIDGE OPEN SIZE	Any	Any
62	1	SW1		BLUE PUSH BUTTON	WEALTHMETAL	TD-0341X

Item	Quantity	Ref.	Part/value	Description	Manufacturer	Order code
63	1	SW2		BLACK PUSH BUTTON	WEALTHMETAL	TD-0341X
64	1	SW3		BLACK PUSH BUTTON NOT FITTED	WEALTHMETAL	TD-0341X
65	1	SW4		JOYSTICK	WEALTHMETAL	MT-008A
66	5	TP1, TP2, TP3, TP4, TP5	HOLE DIAM. 1.0mm	PLATED TEST POINT	Any	Any
67	17	TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP17, TP18, TP19, TP20, TP21, TP22, TP23, TP26	COPPER LAND DIAM. 0.8mm	TEST POINT	Any	Any
68	1	U1	LD39050PUR, DFN6 3x3	500 mA low quiescent current and low noise voltage regulator	ST	LD39050PUR
69	1	U2	STM32L476VGT6, LQFP 100 14x14x1.4 mm	IC	ST	STM32L476VGT6
70	1	U3		DIGITAL POT	ANALOG DEV.	AD5112BCPZ10
71	1	U4	VSSOP8	LEVEL SHIFTER	TEXAS	SN74LVC2T45DCUT
72	1	U5	STM32F103CBT6, LQFP 48 7x7x1.4 mm	Mainstream performance line, Arm Cortex-M3 MCU with 128 Kbytes of Flash memory, 72 MHz CPU, motor control, USB, and CAN	ST	STM32F103CBT6
73	1	U7		Wi-Fi module NOT FITTED	ST	SPWF01SA.11
74	1	U8		Bluetooth @ Low Energy module NOT FITTED	ST	SPBTLE-RF
75	2	Y1, Y2		SMD CRYSTAL	NDK	NX3225GD-8MHZ-EXS00A-CG04874
76	1	Y3		SMD CRYSTAL	NDK	NX3215SA 32.768KHZ

Table 3. Reader expansion board bill of materials

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
1	6	C100, C205, C207, C212, C214, C216	2.2µF_0402_X5R	Capacitors	MURATA	GRM155R60J225ME15D
2	1	C200	1µF_0402_X5R	Capacitor	MURATA	GRM155R61C105KA12D
3	7	C201, C204, C206, C208, C211, C213, C215	10nF_0402	Capacitors	AVX	04023C103KAT2A
4	1	C202	22nF_0402	Capacitor	AVX	0402YC223KAT2A
5	1	C203	2.2µF_0402_NC	Capacitor not assembled	MURATA	GRM155R60J225ME15D NOT FITTED

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
6	1	C209	10nF	Capacitor not assembled	AVX	04023C103KAT2A NOT FITTED
7	1	C210	2.2µF	Capacitor not assembled	MURATA	GRM155R60J225ME15D NOT FITTED
8	2	C217, C218	10pF_0402	Capacitors	MURATA	GRM1555C1H100GA01D
9	2	C300, C317	120pF_0603	Capacitors	MURATA	GRM1885C1H121GA01D
10	2	C301, C316	10pF_0603	Capacitors	MULTICOMP	MC0603N100F500CT
11	3	C302, C308, C315		Capacitors	MURATA	LXRW0YV201-059
12	2	C303, C314	47pF_0603	Capacitors	MURATA	GRM1885C1H470FA01D
13	2	C305, C313	220pF_0402	Capacitors	MURATA	GRM1555C1H221FA01D
14	2	C306, C311	680p_COG	Capacitors	MURATA	GRM1885C1H681GA01D
15	2	C307, C312	82pF_0603	Capacitors	MURATA	GRM1885C1H820FA01D
16	1	D300		Diode	DIODES INC	BAV70W
17	2	J100, J102	5 pin	Male single row horizontal	Samtec	TSW-105-08-G-S-NA
18	1	J101	14 pin	Male single row horizontal	Samtec	TSW-114-08-G-S-NA
19	15	J201, J204, J205, J207, J300, J303, J304, J305, R204, R205, R206, R207, R208, R209, R210	0R_0402	Resistors	Multicomp	MC00625W040210R
20	1	J302	HE14 2PTS	Male single row horizontal not fitted	Any	Any
21	2	L300, L301		Fixed inductor	TDK	MLJ1608WR27JT000
22	2	LED100, LED101		LEDs	Lite-On	LTST-C190KGKT
23	4	P100, P101, P102, P103		Connectors	Samtec	SJ5303TRANS
24	4	P200, P201, P202, P203		Connectors	HIROSE(HRS)	U.FL-R-SMT-1(10)
25	1	Q300		30 V, 400 mA N-channel trench MOSFET	NEXPERIA	NX3008NBK
26	1	R100	1k, 0402	Resistor	Panasonic	ERJ2GEJ102X
27	1	R101	680R, 0402	Resistor	Yageo	RC0402JR-07680RL
28	2	R201, R202	1k65, 0402	Resistors	MULTICOMP	MC00625W040211K65
29	2	R300, R301	2R2, 0603	Resistors	Vishay Dale	CRCW06032R20FKEA
30	1	R302	100R_0402	Resistor	MULTI SOURCES	RESISTOR 0402 100R
31	1	R303	47K_0402	Resistor	MULTI SOURCES	RESISTOR 0402 47K
32	1	S100		Switch	C & K COMPONENTS	PCM12SMTR
33	1	U200	ST25R3916B-AQWT, VFQFPN 5X5X1 32L WETTABLE FLANKS	NFC reader for payment, consumer, and industrial	ST	ST25R3916B-AQWT

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
34	1	Y200		Crystal	NDK	NX2016SA STD-CZS-5 27.12MHz

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.

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RESTRICTIONS AND WARNINGS

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

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

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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