

Bill of materials

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
1	6	+3V3 +24V VDC VCC VCC1 VCC2	Test Point Red hole diam. 1,6mm	Test point - red	KEYSTONE	5000
2	12	CH1 CH2 DG1 DG2 GND IN1 IN2 OUT1 OUT2 OUTP1 OUTP2 PE	Test Point Black hole diam. 1,02mm	Test point - black	KEYSTONE or RS Pro	5001 or 262-2179
3	6	C1 C2 C3 C8 C11 C13	100pF	CAP CER, 100 pF, 16 V, ± 1%	WURTH ELEKTRONIK	885012006023
4	4	C4 C7 C56 C57	1uF	CAP CER, 1 μF, 16 V, ± 10%, X7R	TDK	CGA3E1X7R1C105K080AC
5	20	C5 C6 C35 C39 C40 C41 C42 C45 C46 C48 C49 C51 C59 C60 C61 C62 C63 C64 C65 C66	100nF	CAP CER, 0.1 μF, 16 V, ± 5%, X7R	WURTH ELEKTRONIK	885012206095
6	2	C9 C10	10nF	CAP CER, 10000 pF, 100 V, ± 5%, X7R	WURTH ELEKTRONIK	885012206114
7	4	C12 C14 C19 C24	10nF	CAP CER, 10000 pF, 16 V, ± 10%, X7R	WURTH ELEKTRONIK	885012206040
8	5	C52 C53 C54 C55 C58	470pF	CAP CER, 470 pF, 50 V, ± 10%, X7R	WURTH ELEKTRONIK	885012206081
9	5	C15 C20 C30 C31 C37			n.a.	n.a.
10	3	C22 C26 C32	100nF	CAP CER, 0.1 μF, 100 V, ± 10%, X7R	WURTH ELEKTRONIK	885012206120
11	2	C16 C21	22nF	CAP CER, 22000 pF, 100 V, ± 10%, X7R	KEMET or Murata	C0603C223K1RACTU or GRM188R72A223KAC4D
12	2	C18 C23	22nF	CAP CER, 22000 pF, 100 V, ± 10%, X7R	KEMET or Murata	C0603C223K1RACTU or GRM188R72A223KAC4D
13	2	C25 C29	4.7nF	CAP CER, High Voltage, 4700 pF, 2 kV, ± 10%, X7R	WURTH ELEKTRONIK	885342211008
14	2	C27 C28	4.7nF	CAP CER, 4.7 µF, 100 V, ± 10%, X7S	TDK or Taiyo Yuden	CGA6M3X7S2A475K200AB or HMK325C7475KMHPE
15	1	C33	1uF	CAP CER, 1 µF, 100 V, ± 10%, X7S	MURATA or TDK	GRJ21BC72A105KE11L or CGA4J3X7S2A105K125AB
16	2	C34 C38	2.2uF	CAP CER, 2.2 µF, 16 V, ± 10%, X7S	TDK	CGA3E1X7S1C225K080AC
17	1	C36	470nF	CAP CER, 0.47 µF, 16 V, ± 10%, X7R	TDK	C1608X7R1C474K080AC
18	2	C43 C44	4.7nF	CAP CER, ArcShield™, 4700 pF, 1 kV, ± 10%, X7R	KEMET	C0805V472KDRACTU

Table 1. BOM





ltem	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
19	4	R1 R2 R3 R4	220	SMD Chip Resistor, 220 ohm, ± 1%, 100 mW	MULTICOMP PRO or Yageo	MCWR06X2200FTL or RC0603FR-07220RL
20	2	R5 R6	1k3	SMD Chip Resistor, 1.3 kohm, ± 1%, 100 mW	Vishay	CRCW06031K30FKEA
21	5	R7 R9 R11 R24 R37	0	Zero Ohm Resistor, Thick Film, 100 mW, 1 A	MULTICOMP PRO or Yageo	MC0603SAF0000T5E or RC0603JR-070RL
22	36	R8 R10 R23 R36 R50 R51 R52 R53 R54 R55 R56 R58 R59 R60 R61 R62 R63 R64 R65 R66 R67 R68 R72 R73 R74 R75 R78 R79 R80 R81 R82 R84 R85 R86 R87 R88	1k	SMD Chip Resistor, 1 kohm, ± 0.5%, 100 mW	Panasonic	ERJ3RBD1001V
23	7	R13 R26 R43 R47 R76 R77 R94			n.a.	n.a.
24	3	R14 R27 R39	1k8	SMD Chip Resistor, 1.8 kohm, ± 1%, 100 mW	MULTICOMP PRO or Vishay	MCWR06X1801FTL or CRCW06031K80FKEA
25	1	R38	27k	SMD Chip Resistor, 27 kohm, ± 1%, 125 mW	Vishay	CRCW080527K0FKEA
26	2	R12 R25	27k	SMD Chip Resistor, 27 kohm, ± 1%, 100 mW	BOURNS or Yageo	CR0603-FX-2702ELF or RC0603FR-0727KL
27	2	R70 R71	27k	SMD Chip Resistor, 27 kohm, ± 1%, 100 mW	BOURNS or Yageo	CR0603-FX-2702ELF or RC0603FR-0727KL
28	4	R15 R18 R28 R31	3k6	SMD Chip Resistor, 3.6 kohm, ± 1%, 250 mW	YAGEO or Vishay	RC1206FR-073K6L or CRCW12063K60FKEA
29	5	R16 R19 R29 R32 R96	62k	SMD Chip Resistor, 62 kohm, ± 1%, 100 mW	Vishay	CRCW060362K0FKEA
30	3	R17 R30 R40	7k5	SMD Chip Resistor, 7.5 kohm, ± 1%, 100 mW	MULTICOMP PRO or Vishay	MCWR06X7501FTL or CRCW06037K50FKEAC
31	1	R42	68k	SMD Chip Resistor, 68 kohm, ± 1%, 100 mW	MULTICOMP PRO or Yageo	MCWR06X6802FTL or RC0603FR-0768KL
32	3	R20 R33 R48	390	SMD Chip Resistor, 390 ohm, ± 1%, 100 mW	MULTICOMP PRO or Yageo	MCWR06X3900FTL or RC0603FR-07390RL
33	5	R21 R22 R34 R35 R97	3k6	SMD Chip Resistor, 3.6 kohm, ± 1%, 100 mW	Vishay or Yageo	CRCW06033K60FKEA or RC0603FR-073K6L
34	1	R41	18k	SMD Chip Resistor, 18 kohm, ± 1%, 100 mW	MULTICOMP PRO or Panasonic	MCWR06X1802FTL or ERJ3EKF1802V
35	2	R44 R45	0	Zero Ohm Resistor, Thick Film, 100 mW, 1 A	MULTICOMP PRO or Yageo	MC0603SAF0000T5E or RC0603JR-070RL
36	1	R46	100k	SMD Chip Resistor, 100 kohm, ± 1%, 100 mW	MULTICOMP PRO or Yageo	MCMR06X1003FTL or RC0603FR-07100KL
37	1	R49	680	SMD Chip Resistor, 680 ohm, ± 1%, 100 mW	MULTICOMP PRO or Vishay	MCWR06X6800FTL or CRCW0603680RFKEA
38	4	R57 R83 R98 R99	4k7	SMD Chip Resistor, 4.7 kohm, ± 1%, 100 mW	MULTICOMP PRO or Vishay	MCMR06X4701FTL or SRMCF0603FT4K70
39	2	R69 R89	220k	SMD Chip Resistor, 220 kohm, ± 1%, 100 mW	MULTICOMP PRO or Yageo	MCWR06X2203FTL or RC0603FR-07220KL





ltem	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
40	2	R102 R103	220k	SMD Chip Resistor, 220 kohm, ± 1%, 100 mW	MULTICOMP PRO or Yageo	MCWR06X2203FTL or RC0603FR-07220KL
41	5	R90 R91 R92 R93 R95	330	SMD Chip Resistor, 330 ohm, ± 1%, 100 mW	MULTICOMP PRO or Panasonic	MCWR06X3300FTL or ERJ3EKF3300V
42	2	R100 R101	33k	SMD Chip Resistor, 33 kohm, ± 1%, 100 mW	MULTICOMP PRO or Yageo	MCWR06X3302FTL or RC0603FR-0733KL
43	3	D4 D7 D9	BZV55-C10,115	Zener Diode, 10 V, 500 mW, SOD-80C	NEXPERIA	BZV55-C10,115
44	7	D14 D15 D18 D19 D26 D27 D28	STPS1L60ZF, SOD123Flat	60 V, 1 A low drop power Schottky rectifier	STMicroelectronics	STPS1L60ZF
45	2	D16 D20	STPS1L60ZF, SOD123Flat	60 V, 1 A low drop power Schottky rectifier	STMicroelectronics	STPS1L60ZF
46	1	D10	SMC30J36CA, SMC	3000 W, 36 V TVS in SMC	STMicroelectronics	SMC30J36CA
47	4	D17 D21 D22 D23	SM6T33CA, SMB	600W TVS in SMB package	STMicroelectronics	SM6T33CA
48	2	D24 D25	SM2T3V3A, STmite	200 W, 3.3 V TVS in STmite	STMicroelectronics	SM2T3V3A
49	3	Q3 Q8 Q13	STL42P6LLF6, PowerFLAT 5x6	P-channel 60V MOSFET	STMicroelectronics	STL42P6LLF6
50	1	U1	ADC120IPT, TSSOP-16L	8-Channel, 50ksps to 1Msps, 12-Bit A/D Converter	STMicroelectronics	ADC120IPT
51	1	U2	CLT03-2Q3, QFN-16L	Self powered digital input current limiter	STMicroelectronics	CLT03-2Q3
52	1	U3	IPS160HFTR, PowerSSO 12	Single-channel IPS	STMicroelectronics	IPS160HFTR
53	1	U4	IPS161HFTR, PowerSSO 12	Single-channel IPS	STMicroelectronics	IPS161HFTR
54	1	U5	L7983PUR, DFN 3X3X0.8 10L PITCH 0.5	60 V, 300 mA synchronous DCDC	STMicroelectronics	L7983PUR
55	1	U10	LDK220M33R, SOT23-5L	200mA Low noise LDO	STMicroelectronics	LDK220M33R
56	2	U6 U9	STISO621, SO-8	Dual channel digital isolator	STMicroelectronics	STISO621
57	2	U11 U12	MAX14930EASE+	4-channel digital isolator	Maxim Integrated	MAX14930EASE+
58	1	U7	ADUM7442ARQZ	1 kV RMS Quad-Channel Digital Isolator	ANALOG DEVICES	ADUM7442ARQZ-RL7
59	1	U8	ADUM7441CRQZ	1 kV RMS Quad-Channel Digital Isolator	ANALOG DEVICES	ADUM7441CRQZ-RL7
60	10	Q1 Q2 Q4 Q5 Q6 Q7 Q9 Q10 Q11 Q12	BSS138BK,215	Power MOSFET, N Channel, 60 V, 360 mA, 1 ohm, SOT-23	NEXPERIA	BSS138BK,215
61	1	L1	LPS4018-473MRC	Inductor, 47 µH, LPS4018, 3.9mm x 3.9mm x 1.7mm	Coilcraft	LPS4018-473MRC
62	1	CN1_0-4	PCB Terminal block (GRAY)	4-pole Wago connector 235-404	Wago	235-404
63	1	CN1_5	PCB Terminal block (ORANGE)	1-pole Wago connector 235-746	Wago	235-746
64	2	CN1_6-7	PCB Terminal block (BLUE)	1-pole Wago connector 235-744	Wago	235-744



ltem	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
65	1	CN1_8	PCB Terminal block (GREEN)	1-pole Wago connector 235-747	Wago	235-747
66	1	CN5	Female Connector 1x10	CON, 2.54 mm, 1 Rows, 10 Contacts, 2212S	MULTICOMP PRO or Amtek	2212S-10SG-85 or PS1S85-110-GBL 10P
67	2	CN6 CN9	Female Connector 1x8	CON, 2.54 mm, 1 Rows, 8 Contacts, 2212S	MULTICOMP PRO or Amtek	2212S-08SG-85 or PS1S85-108GB-L
68	2	CN7 CN10	Female header 2x19	CON, 2.54 mm, 2 Rows, 38 Contacts, SSW	SAMTEC or 4UCON	SSW-119-01-T-D or 19744
69	1	CN8	Female Connector 1x6	CON, 2.54 mm, 1 Rows, 6 Contacts, 2212S	MULTICOMP PRO or Amtek	2212S-06SG-85 or PS1S85-106GB-L
70	5	D1 D2 D5 D8 D12	Led green	LED, Green, SMD, 20 mA, 2 V, 570 nm	Wurth Elektronik	150060VS75020
71	2	D3 D6	Led orange	LED, Amber, SMD, 20 mA, 2 V, 605 nm	Wurth Elektronik	150060AS75020
72	2	D11 D13	Led red	LED, Red, SMD, 20 mA, 2 V, 625 nm	Wurth Elektronik	150060RS75020
73	1	PCB Not Reference	FR4-4 Layer	FR4-4 Layer copper thickess 35 micron ext/Inter Layer	n.a.	n.a.



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.

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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

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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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