



Bill of materials

Table 1. STEVAL-CTM020A bill of materials

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
1	2	C1 C2	1.8pF	CAP CER 1.8PF 50V C0G/NP0 0402	Würth Electronics Inc.	885392005008
2	34	C3 C8 C9 C10 C11 C12 C13 C14 C15 C17 C21 C22 C23 C24 C25 C26 C27 C28 C29 C30 C31 C32 C33 C34 C35 C36 C37 C45 C46 C47 C48 C49 C51 C53	0.1uF	CAP CER 0.1UF 16V X7R 0402	Würth Electronics Inc.	885012205037
3	4	C4 C5 C6 C7	1nF	CAP CER 1000PF 16V X7R 0402	Würth Electronics Inc.	885012205025
4	1	C16	4.7uF	CAP CER 4.7UF 10V X5R 0402	Murata Electronics North America	GRM155R61A475MEAAD
5	1	C18	10uF	CAP CER 10UF 10V X5R 0402	Samsung Electro-Mechanics America, Inc.	CL05A106MP8NUB8
6	2	C50, C52	1uF	CAP CER 1UF 10V X5R 0402	Würth Electronics Inc.	885012105012
7	1	C54, C55	33pF	CAP CER 33PF 10V C0G/NP0 0402	Würth Electronics Inc.	885012005010
8	1	CN1	Con14-male	CONN HEADER SMD 14POS 1.27MM	Samtec Inc.	FTSH-107-01-F-DV-K-P-TR
9	1	D1	LED GREEN	LED GREEN CLEAR 0603 SMD	Würth Electronics Inc.	150060GS75000
10	1	D2	RED LED	LED RED CLEAR 0603 SMD	Würth Electronics Inc.	150060RS75000
11	1	D3	ESDZL5-1F4, ST0201	TVS DIODE 3VWM ST0201	ST	ESDZL5-1F4
12	1	J10	PCIE-164-PLUG	CON 164 PCI EXPRESS - PCB PLUG (not assembled)	/	/
13	1	J2	GND	CONN HEADER SMD 2POS 2.54MM	Samtec Inc.	TSM-102-01-L-SV

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
14	1	J3	EXT. 5V	CONN HEADER SMD 2POS 2.54MM	Samtec Inc.	TSM-102-01-L-SV
15	1	J9	con2-strip-male-SMD	CONN HEADER SMD 2POS 2.54MM	Samtec Inc.	TSM-102-01-L-SV
16	1	L1	600Ohm@100MHz	FERRITE BEAD 600 OHM 0603 1LN	Würth Electronics Inc.	742863160
17	1	R1	0.0	RES SMD 0.0OHM JUMPER 1/10W 0603	Yageo	RC0603JR-070RL
18	1	R2	0.0	RES SMD 0.0OHM JUMPER 1/10W 0603	Yageo	RC0603JR-070RL
19	2	R3 R4	47k	RES 47K OHM 1% 1/10W 0402	Würth Electronics Inc.	560112110055
20	1	R5	10K	RES SMD 10K OHM 1% 1/16W 0402 (not assembled)	TE Connectivity Passive Product	CRG0402F10K
21	2	R6 R7	510	RES 510 OHM 1% 1/16W 0402	Yageo	RC0402FR-07510RL
22	4	R8 R10 R12 R14	1k	RES 1K OHM 1% 1/10W 0402	Würth Electronics Inc.	560112110012
23	4	R9 R11 R13 R15	3.3k	RES 3.3K OHM 5% 1/10W 0402	Würth Electronics Inc.	560112110053
24	22	R16 R17 R18 R19 R20 R21 R22 R23 R24 R25 R26 R27 R28 R29 R30 R31 R32 R40 R41 R42 R43 R44	100	RES 100 OHM 1% 1/10W 0402	Würth Electronics Inc.	560112110022
25	2	R47 R48	1k	CHIP RESISTOR SMD 1% 1/16W 0402	Würth Electronics Inc.	560112110012
26	1	SW1	1437566-3	SWITCH TACTILE SPST- NO 0.05A 24V	TE Connectivity ALCOSWITCH Switches	1437566-3
27	1	TP1	DAC_CH1	PC TEST POINT NATURAL	Harwin Inc.	S1751-46R
28	1	TP2	DAC_CH2	PC TEST POINT NATURAL	Harwin Inc.	S1751-46R
29	1	TP3	VDD	TEST POINT 1MM SMD PADSTASCK (not assembled)	/	/
30	1	TP4	VDDA / VREF	TEST POINT 1MM SMD	/	/

Item	Q.ty	Ref.	Part/Value	Description	Manufacturer	Order code
				PADSTASCK (not assembled)		
31	1	TP5	GND	TEST POINT 1MM SMD PADSTASCK (not assembled)	/	/
32	1	U1	STM32G474QBT6, LQFP 128	IC MCU 32BIT 128KB FLASH 128LQFP	ST	STM32G474QBT6
33	1	U2	LD39050PU33R, DFN6 3x3	IC REG LINEAR 3.3V 500MA 6DFN	ST	LD39050PU33R
34	1	Y1	24MHz	CRYSTAL 24.00 MHZ 9.0PF SMD	EPSON	TSX-3225 24.0000MF15X- AC6
35	1	PCB No Reference	6 Layer FR4 PCB	FR4-Tg140- copper Thickness int/ exter layer 35micron Final finishes Electrolitic Hard Gold	/	/

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