



Bill of materials

Table 1. STEVAL-NBIOTV1 bill of materials

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
1	1	BATT1	Battery Connector	Battery Connector Amass	Molex	78171-0003
2	1	CN1	STDC14	STDC14 - ARM MIPI10 compatible	Samtec	FTSH-107-01-L-DV-K-P
3	1	CN2	CON34-Socket	CONN SOCKET 34POS SMD GOLD	Panasonic Electric Works	AXF5G3412A
4	12	C1,C3,C4,C5,C10,C20,C27,C38,C39,C41,C46,C47	10uF	CAP CER 10UF 10V X5R 0402	Samsung Electro-Mechanics America, Inc.	CL05A106MP8NU B8
					WURTH ELEKTRONIK	885012105022
5	4	C2,C14,C23,C40	1uF	CAP CER 1UF 10V X5R 0201	Murata	GRM033R61A105 ME44D
					WURTH ELEKTRONIK ⁽¹⁾	885012104007
6	2	C6,C12	4.7uF	CAP CER 4.7UF 10V X5R 0402	Murata	GRM155R61A475 MEAAD
7	16	C7,C8,C9,C11,C13,C19,C24,C25,C28,C29,C30,C31,C32,C34,C36,C42	100nF	CAP CER 0.1UF 16V X5R 0201	Taiyo Yuden	EMK063BJ104KP-F
					WURTH ELEKTRONIK ⁽¹⁾	885012104001
8	2	C15,C16	5.6pF	CAP CER 5.6PF 10V C0G/NP0 0201	Murata	GJM0335C1E5R6B B01D
					WURTH ELEKTRONIK ⁽¹⁾	885392004009
9	2	C17,C18	6.8pF	CAP CER 6.8PF 10V C0G/NP0 0201	Murata	GJM0335C1E6R8B B01D
10	2	C21,C48	1nF	CAPACITOR SMD 0402 1nF 50V COG 5%	Murata	GRM1555C1H102J A01D
					WURTH ELEKTRONIK ⁽¹⁾	885012005067
11	1	C22	33pF	CAPACITOR SMD 0402 33pF 50V COG 5%	Taiyo Yuden	UMK105CG330JV HF
					WURTH ELEKTRONIK ⁽¹⁾	885012005058
12	1	C26	100pF	CAP CER 100PF 50V C0G/NP0 0402	WURTH ELEKTRONIK	WE 885012005013
13	1	C33	10n/1kV	CHIP CAP.CER. 10nF 1000V 10% X7R 1206	WURTH ELEKTRONIK	WE 885342208021
14	1	C35	NC	CAP CER 330pF (not mounted)	Any	Any

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15	1	C37	NC	CAP CER 0402 18pF COG (not mounted)	Murata	GRM1555C2A180 GA01D
16	1	C43	1pF	CAPACITOR SMD 0402 1pF 50V COG 5%	Murata	GJM1555C1H1R0 WB01
					WURTH ELEKTRONIK ⁽¹⁾	885392005005
17	1	C44	0.6pF	CAPACITOR SMD 0402 0.6pF 50V COG 5%	Murata	GJM1555C1HR60 WB01
18	1	C45	0.7pF	CAPACITOR SMD 0402 0.7pF 50V COG 5%	Murata	GJM1555C1HR70 WB01
					WURTH ELEKTRONIK ⁽¹⁾	885392005019
19	1	C49	NC	CAPACITOR SMD 0402 27pF COG (not mounted)	WURTH ELEKTRONIK	WE-885392005116
20	2	C50,C51	NC	CAP CER 0402 (not mounted)	Any	Any
21	1	D2	STPS120M, Stmite	Power Schottky rectifier (1A)	ST	STPS120M
22	1	D3	ESDA25P35-1U1M , QFN-2L	High power transient voltage suppressor	ST	ESDA25P35-1U1M
23	1	D4	BAT30KFILM, SOD523	DIODO SCHOTTKY 0.3A 30V BAT30KFILM SOD523	ST	BAT30KFILM
24	1	E1	PCB ANTENNA	(not mounted)		
25	1	E2	NN03-320	Ignion Chip Antenna	Ignion	NN03-320
26	1	FB1	FERRITE	Ferrite WE-CBF 0603 550MHz 140Ohm 550mA	WURTH ELEKTRONIK	WE 742792621
27	3	J1,J2,J6	CON3	2.54 TH Jumper	Samtec	TSW-103-07-G-S
					WURTH ELEKTRONIK ⁽¹⁾	61300311121
28	1	J3	NC	Battery SMD PAD (not mounted)		
29	1	J4	12401598E4#2A	CONN. USB 3.0 F/90°	Amphenol ICC	12401598E4#2A
30	1	J5	CON2	2.54 TH Jumper	Samtec	TSW-102-07-G-S
					WURTH ELEKTRONIK ⁽¹⁾	61300211121
31	2	K1,K2	WE 60312202114514	SMA JACK PCB EDGE 1,6mm (not mounted)	WURTH ELEKTRONIK	WE 60312202114514
32	1	K3	SIM8060-6-0-14-00 -A	Nano SIM Card Connector	GCT	SIM8060-6-0-14-00 -A
33	1	LED1	KPHHS-1005MGC K	GREEN LED	Kingbright	KPHHS-1005MGC K

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33	1	LED1	KPHHS-1005MGC K	GREEN LED	WURTH ELEKTRONIK ⁽¹⁾	150040VS73240
34	1	LED2	SML-P12DTT86R	ORANGE LED	Rohm Semiconductor	SML-P12DTT86R
35	1	LED3	RED	RED LED	Vishay Semiconductor Opto Division	VLMS1500-GS08
					WURTH ELEKTRONIK ⁽¹⁾	150040SS73240
36	1	L1	100nH	INDUCTOR 100nH	Murata	LQW18ANR10J00
					WURTH ELEKTRONIK ⁽¹⁾	744917210
37	1	L2	9.1nH	INDUCTOR 9.1NH 540MA 0.14OHM	Murata	LQW15AN9N1G00 D
38	3	USR,RESET,PWR	PUSHBUTTON	TACTILE SWITCH, SIDE ACTUATED, SMD	Omron Electronics	B3U-3000P-B
39	1	Q1	STR2N2VH5, SOT-23	Enhancement Mode Field Effect	ST	STR2N2VH5
40	1	Q2	STL6N3LLH6, PowerFLAT 2x2	MOSFET N-CH 30V PWRFLT2X2	ST	STL6N3LLH6
41	1	R2	NC	RES SMD 24.3k OHM 0402	Yageo	RT0402FRE0724K 3L
42	3	R3,R5,R47	100k	RES SMD 100K OHM 0201	Yageo	RC0201FR-7D100 KL
43	1	R4	NC	RES SMD 11.5k OHM 0402	Yageo	RT0402FRE0711K 5L
44	1	R6	NC	RES SMD 10K OHM 1% 1/16W 0402	Yageo	RC0402FR-0710KL
					WURTH ELEKTRONIK ⁽¹⁾	560112110020
45	9	R7,R12,R16,R18,R24,R29,R38,R40,R44	0R	RES SMD 0 OHM 0402	Vishay Dale	CRCW04020000Z0 ED
					WURTH ELEKTRONIK ⁽¹⁾	560112110001
46	2	R8,R9	4.02k	RES SMD 4.02k OHM 0201	Yageo	RC0201FR-074K02 L
47	2	R10,R11	40.2k	RES SMD 40.2K OHM 0201	Yageo	RC0201FR-0740K2 L
48	1	R13	27.4k	RES SMD 27.4k OHM 0402	Yageo	RT0402FRE0727K 4L
49	1	R14	100k	RES SMD 100k OHM 0402	Yageo	AT0402FRE07100 KL
					WURTH ELEKTRONIK ⁽¹⁾	560112110019
50	2	R15,R37	10k	RES SMD 10K OHM 1% 1/20W 0201	Yageo	RT0201FRE0710K L
51	5	R17,R25,R28,R50,R51	NC	RES SMD 0 OHM 0402	Vishay Dale	CRCW04020000Z0 ED
					WURTH ELEKTRONIK ⁽¹⁾	560112110001
52	1	R19	0.5pF	Ceramic Capacitor 0.5pF	Murata	GJM1555C1HR50B B01D

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52	1	R19	0.5pF	Ceramic Capacitor 0.5pF	WURTH ELEKTRONIK ⁽¹⁾	885392005004
53	1	R20	7.5nH	Inductor 7.5nH 1.7A	Murata	LQW15AN7N5G8Z D
54	1	R21	3.6pF	Ceramic Capacitor 3.6pF	Murata	GJM1555C1H3R6B B01D
					WURTH ELEKTRONIK ⁽¹⁾	885392005044
55	2	R22,R49	1k	RES SMD 1K OHM 1% 1/16W 0402	Yageo	RC0402FR-071KL
					WURTH ELEKTRONIK ⁽¹⁾	560112110012
56	1	R30	18k	RES SMD 18k OHM 0402	Vishay Dale	CRCW040218K0F KEDC
57	1	R31	10k	RES SMD 10K OHM 1% 1/16W 0402	Yageo	RC0402FR-0710KL
					WURTH ELEKTRONIK ⁽¹⁾	560112110020
58	4	R32,R33,R35,R36	4.7k	RES SMD 4.7K OHM 1% 1/16W 0201	Yageo	RC0201FR-074K7L
59	1	R34	1M	CHIP RES. 1M 0603 1/16W 1%	TE Connectivity Passive Product	CRGCQ0603J1M0
					WURTH ELEKTRONIK ⁽¹⁾	560112116074
60	1	R39	2.7k	RES SMD 2.7K OHM 1% 1/16W 0201	Yageo	RC0201FR-072K7L
61	2	R45,R46	10k	RES SMD 10K OHM 1% 1/20W 0201	Yageo	RC0201FR-7D10K L
62	1	R48	330R	RES SMD 330 OHM 1% 1/16W 0402	Yageo	RC0402FR-07330R L
					WURTH ELEKTRONIK ⁽¹⁾	560112110231
63	11	SB1,SB2,SB3,SB7,SB8, SB9,SB10,SB11,SB14,S B15,SB18	0R	RES SMD 0 OHM 0402	Vishay Dale	CRCW04020000Z0 ED
64	6	SB4,SB5,SB6,SB13,SB1 6,SB17	NC	RES SMD 0 OHM 0402	Vishay Dale	CRCW04020000Z0 ED
65	18	TP1,TP2,TP3,TP4,TP5,T P6,TP7,TP8,TP9,TP10,T P11,TP12,TP13,TP14,T P15,TP16,TP17,TP18	TP	TEST POINT 1MM SMD PADSTASCK	Any	Any
66	3	TVS1,TVS2,TVS3	ESDALC6V1-1M2, SOD882	DIODO TVS TRANSIL UNIDIIR	ST	ESDALC6V1-1M2
67	1	U1	STBC02AJR, Chip Scale Package	Li-Ion Battery Charger	ST	STBC02AJR
68	1	U2	LD39100PU25RY, DFN6	2.5V 1A low Iq and low noise LDO	ST	LD39100PU25RY
69	1	U3	STM32U585RIT6, LQFP64	Ultra-low-power with FPU Arm Cortex-M33 MCU	ST	STM32U585RIT6

Item	Q.ty	Ref.	Part / Value	Description	Manufacturer	Order code
70	1	U5	ST87M01-1301, SMD MODULE	Ultra-compact, low-power NB-IoT and GNSS Module	ST	ST87M01-1301
71	1	U6	EMIF03-SIM02M8, QFN-8L	3-line EMI filter and ESD protection for SIM card	ST	EMIF03-SIM02M8
72	1	U7	LDK320M-R, SOT23-5L	ADJUSTABLE_LD O	ST	LDK320M-R
73	1	U8	SHT40-AD1B	Humidity, Temperature	Sensirion	SHT40-AD1B
74	1	U9	LIS2DUXS12TR, LGA12L	Ultralow-power 3-axis smart accelerometer	ST	LIS2DUXS12TR
75	1	U10	LPS22DFTR, HLGA-10L	260-1260 hPa absolute digital output barometer	ST	LPS22DFTR
76	1	U11	USBLC6-2P6, SOT666	USB Protection	ST	USBLC6-2P6
77	1	U12	TCPP01-M12, QFN12	USB type-C port protection	ST	TCPP01-M12
78	1	U13	M95P32-IXCSTEF,WLCSP8	Ultra low-power 32 Mbit Page EEPROM	ST	M95P32-IXCST/EF
79	1	U14	STLQ020J25R, Flip-Chip4	200 mA ultra-low quiescent current LDO	ST	STLQ020J25R
80	1	U15	AW5005EDNR	Ultra-Low Noise Amplifier for Global Navigation	AWINIC	AW5005EDNR
81	1	U16	SAW Filter	SAW Filter	Murata	SAFFB1G57KE0F0A
82	1	X1	32.7680kHz	32.768KHz Crystal	NDK	NX2012SA 32.768KHz EXS00A-MU00527
					WURTH ELEKTRONIK ⁽¹⁾	830106545501
83	1	X2	16MHz	16MHz Crystal	NDK	NX2016SA 16 MHz EXS00A-CS07826
					WURTH ELEKTRONIK ⁽¹⁾	830108178109
84	2	Jumpers for J1,J2	Jumper	2pin 2.54mm Open Top Jumper Socket	Harwin	M7582-46
85	1	Battery		LiPo-752535	Himax	LiPo-752535
86	1	Single-Coated Urethane Foam Tape		3M 4726	3M	3M 4726
87	1	Plastic Case: Base + Cover			Protolabs	
88	1	SIM Card		Sim card + Flyer	WirelessLogic	
89	3	Screws for plastic case		Vite per plastica a testa cilindrica (croce) - L:8mm	Screwwerk	STP310250080S
90	2	Light Pipes		Light Pipes - 3 x 12.7 mm - UL94-V0	Bivar	PLP2-500



1. *Alternative manufacturer.*

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