



Bill of materials

Table 1. STEVAL-ST4SIMV1 bill of materials

Item	Q.ty	Ref.	Part/value	Description	Manufacturer	Order code
1	11	C1, C3, C10, C11, C12, C14, C22, C23, C24, C30, C32	100 nF	Capacitor	Yageo	CC0402KRX7R7BB104
2	2	C13, C25	100 µF	Capacitor	Murata	GRM32ER60J107ME20L
3	2	C18, C26	470 µF	Capacitor	Sanyo	6TPB470M
4	1	C19	10 nF	Capacitor	Yageo	CC0402KRX7R7BB103
5	2	C2, C5	5.1 pF	Capacitor	Yageo	CC0402CRNPO9BN5R1
6	1	C20	10 µF	Capacitor	Yageo	CC0603KRX5R5BB106
7	1	C21	2.2 µF	Capacitor	Yageo	CC0603KRX5R6BB225
8	3	C4, C28, C31	10 pF	Capacitor	Yageo	CC0402JRNPO9BN100
9	9	C6, C7, C8, C9, C15, C16, C17, C27, C29	33 pF	Capacitor	Yageo	CC0402JRNPO9BN330
10	1	C33	1UF	Capacitor	Murata Electronics	GRM155Z71A105KE01D
11	1	CN1	SMA-J-P-H-ST- EM1	RF SMAconnector PCB edge	Samtec	SMA-J-P-H-ST-EM1
12		CN2	10104111-0001L	USB, micro AB receptacle	FCI	10104111-0001LF
13		CN3	Header 10x2 STMod+	Header 20 pins, 2 rows	Samtec	TMM-110-01-L-D-RA
14	1	CN4	786463001	Micro SIM socket microsim	Molex	786463001
15	2	D1, D2	MMSZ5V1T1G	Zener diode	OnSemiconductor	MMSZ5V1T1G
16	1	LD1	RED	LED	Osram Opto Semiconductors	LS Q976-NR-1
17	1	LD2	GREEN	LED	Osram Opto Semiconductors	LG Q396-PS-35
18	4	Q1, Q2, Q3, Q4	DTC043ZEBTL	Buffer transistor	Rohm	DTC043ZEBTL
19	1	R1	0 R, ,	Resistor	Yageo	RC0402JR-070RL
20	1	R11	120 K,,	Resistor	Yageo	RC0402FR-07120KL
21	1	R12	10 K,,	Resistor	Yageo	RC0603FR-0710KL
22	2	R13, R14	2K2,,	Resistor	Yageo	RC0402FR-072K2L
23	1	R17	100 K,,	Resistor	Yageo	RC0402FR-07100KL or RT0402FRE07100KL
24	1	R18	47 K	Resistor	Yageo	RC0402FR-0747KL
25	1	R19	470 R	Resistor	Yageo	RC0402FR-07470RL
26	6	R2, R4, R5, R6, R15, R16	18 R	Resistor	Yageo	RC0402JR-0718RL

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27	2	R20, R21	10 K	Resistor	Yageo	RC0402FR-0710KL
28	2	R3, R7	15 K	Resistor	Yageo	RC0402JR-0715KL
29	1	R8	15 K	Resistor	Yageo	RC0402JR-0715KL
30	2	R9, R10	51 K	Resistor	Yageo	RC0402FR-0751KL
31	1	U1	STMPS2171, SOT23-5L	Enhanced single channel power switch	ST	STMPS2171STR
32	1	U10	M24256E-FMN6TP, SO8	256-Kbit serial I2C bus EEPROM with configurable device address	ST	M24256E-FMN6TP
33	1	U2	ST4SIM-300M	Embedded SIM	ST	ST4SI3M-004600HFW
34	1	U3	BG96	Cellular modem	Quectel	BG96MA-128-SGN
35	2	U4, U5	ESDA6V8V6	ESD protection	Willsemi	ESDA6V8V6
36	1	U6	SN74CB3Q3257	Multiplexer switch	Texas Instruments	SN74CB3Q3257PW
37	1	U7	TXS0108EPWR	Bidirectional level shifter	Texas Instruments	TXS0108EPWR
38	1	U8	MIC29302WU	Adjustable LDO, $V_{OUT} = 1V$ 25-to-25 V, 3 A, $V_{INmax} = 26V$	Micrel	MIC29302WU
39	1	U9	LD3985M33R, SOT23-5L	Ultra low drop- low noise BiCMOS voltage, regulators low ESR capacitor compatible	ST	LD3985M33R
40	1	P1	8Pin, 2.54mm CONN	Headers & Wire Housings WR-PHD 2.54mm Hdr 8P Single Str Gold	Würth Elektronik	61300811121
41	1			Antenna	Pulse	W1900

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