

Bill of materials
Table 1. X-NUCLEO-LIV4A1 bill of materials

Item	Q.ty	Ref.	Value	Description	Manufacturer	Order code
1	1	CN11	SMA	SMA JACK - EDGE MOUT	Molex	73251-1150
2	1	CN5	ARDUINO_10x1	ELEVATED SOCKET	4UCONN	15286
3	2	CN6,CN9	ARDUINO_8x1	ELEVATED SOCKET	4UCONN	15284
4	2	CN7,CN10	ST_MORPHO_19x2	ELEVATED SOCKET	4UCONN	8413
5	1	CN8	ARDUINO_6x1	ELEVATED SOCKET	4UCONN	15282
6	1	C1	100nF	X7R SMD Chip Capacitor	MURATA	GRM155R71C104KA88D
7	1	C2	100pF	COG SMD Chip Capacitor	MURATA	GRM1555C1H101JA01D
8	2	C3,C4	100nF	X7R SMD Chip Capacitor	Taiyo Yuden	EMK107B7104KA-T
9	1	C6	56pF	X7R SMD Chip Capacitor	MURATA	GRM1555C1H560JA01D
10	2	D1,D2	BAT20JFILM	Diode Schottky	STMicroelectronics	BAT20JFILM
11	1	D3	Red_LED	Diode LED	Lite-On	LTST-C193KRKT-5A
12	1	D4	Green_LED	Diode LED	Lite-On	LTST-C191KGKT
13	1	D5	ESDARF02-1BU2C K	Diode - ESD protection	ST	ESDARF02-1BU2CK
14	10	JR1 JR2 JR3 JR4 JR5 JR6 JR7 JR8 JR9 JR10	2.54 mm	JUMPER	TE Connectivity / AMP	1-382811-6
15	8	J1 J2 J4 J5 J6 J7 J9 J14	HEADER1x2	2.54 PIN HEADER SINGLE ROW 2 PIN	Würth Elektronik	61300211121
16	5	J3 J8 J10 J11 J12	HEADER1x3	2.54 PIN HEADER SINGLE ROW 3 PIN	Würth Elektronik	61300311121
17	1	J13	Taoglas GVLB258.A	Antenna(RF Antenna, Patch)	TAOGLAS	CGGBP.18.4.A.02
18	1	Q1	MUN2214T1G	NPN Digital Transistor	ON Semiconductor	MUN2214T1G
19	2	R8,R10	330E	SMD Chip Resistor	Stackpole Electronics Inc	RMCF0603FT330RTR-ND
20	6	R1 R2 R4 R5 R9 R12	0E	SMD Chip Resistor	Stackpole Electronics Inc	RMCF0603ZT0R00
21	1	R3	10K	SMD Chip Resistor	Stackpole Electronics Inc	RMCF0603FT10K0
22	2	R6 R11	4.7K	SMD Chip Resistor	Yageo	RC0603FR-074K7L

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23	2	R7 R13	1K	SMD Chip Resistor	Yageo	AF0603FR-071KL
24	1	R16	0E	SMD Chip Resistor	Stackpole Electronics Inc	RMCF0402ZT0R00
25	2	SW1 SW2	SPST SW	SWITCH TACTILE SPST-NO 0.05A 12V	Panasonic Electronic Components	EVQ-5PN05K
26	4	TP1 TP2 TP3 TP4	TP	TESTPOINT	Keystone Electronics	5117 (or 5000 or 5001)
27	1	U1	Teseo-LIV4F, 18LD LGA 9.7X10.1X2.55MM PITCH	Simultaneous multiconstellation and multi band GNSS (GPS/Galileo/ Glonass/ BeiDou/ QZSS) GNSS RECIEVR	ST	TESEO-LIV4FTR
28	1	VL1	Battery Holder	COIN BATTERY HOLDER (CR2032)	Harwin Inc.	S8421-45R
Other Parts						
29	1	Antenna			Allystar	AGR6303

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