

PROJECT NAME: STEVAL-STLKT01V1

**PROJECT NAME: STLCR01V1
BILL OF MATERIALS**

Item	Quantity	Reference	Part / Value	Voltage / Watt / Ampere	Type / TECHNOLOGY informations	Tolerance	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number
1	1	BATT	Battery Connector					Molex	78171-0003
2	1	CHRG	LED Red		Red		LED_0402		
3	3	C1,C8,C9	100nF		X7R		C_0402		
4	4	C2,C3,C6,C7	4.7uF	10V	X5R		C_0402		
6	1	C10	1uF	10V	X5R		C_0402		
7	1	LED1	LED Green		Green		LED_0402		
8	1	R1	47K			1%	R_0402		
9	1	R2	147K			1%	R_0402		
10	1	R3	2K				R_0402		
11	2	R4,R8	1K				R_0402		
12	1	R5	20K			1%	R_0402		
13	3	R6,R7,R11	NC				R_0402		not Assembly
14	1	R10	0 OHM				R_0402		
15	1	R9	50mOHM	>= 1/16W		1%	R_0402		
16	1	SD	Micro-SD					Hirose	DM3D-SF
17	1	SWD	CON5						
18	1	SW1	PWR					Alps Electric Co.	SSAJ120100
19	1	SensorTile	SensorTile						not Assembly
20	1	USB	USB-MICRO				USB-Micro-B	GCT	USB3075-30-A
21	1	U1	USBLC6-2P6				SOT666	STMicroelectronics	USBLC6-2P6
22	1	U2	STBC08PMR				DFN6	STMicroelectronics	STBC08PMR
23	1	U3	LDK120M-R				SOT23-5L	STMicroelectronics	LDK120M-R
24	1	U4	STC3115IQT				DFN10	STMicroelectronics	STC3115IQT
25	1	U5	HTS221				HLGA-6L(2 x 2 x 0.9 mm)	STMicroelectronics	HTS221
26	1	Battery	LIPO-501225 3pin connector	3.7V 100mAh				Himax electronics	LIPO-501225
27	1	Plastic Box	Plastic Box						
28	2	M2-Nut	HEX Nut M2 - steel	HEX shape	M2			RS or equivalent	
29	2	M2-Screw	12mm M2 Pan head phillips - steel	Pan head - phillips	M2			RS or equivalent	

PROJECT NAME: STLCS01V1

BILL OF MATERIALS

Item	Quantity	Reference	Part / Value	Voltage / Watt / Ampere	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number
1	1	U1	ARM Cortex-M4 32b MCU Microcontroller		WLCSP72	STMicroelectronics	STM32L476JGY6TR
2	1	U2	150 mA low quiescent current low noise LDO 1.8 V		FLIP-CHIP4	STMicroelectronics	LD39115J18R
3	1	U9	Ultra-low Power Acc + Magn		LGA-12	STMicroelectronics	LSM303AGRTR
4	1	U10	Low-Power Accelerometer + Gyroscope		LGA-14L	STMicroelectronics	LSM6DSMTR
5	1	U6	Bluetooth Low-Energy Chip V4.1 - MS		WLCSP36	STMicroelectronics	BlueNRG-MSCSP
6	1	U13	Low-Power Pressure sensor		HLGA-10L	STMicroelectronics	LPS22HBTR
7	1	U11	MEMS audio sensor digital microphone		HCLGA	STMicroelectronics	MP34DT04
8	1	U4	Bluetooth Low-Energy Balun Chip		CSP4	STMicroelectronics	BALF-NRG-01D3
9	1	X2	CRYSTAL 32MHZ 8PF SMD			AVX	CX2016DB32000D0FLJCC
10	1	X1	Crystal 32.7680kHz 20ppm 4pF 60 kOhm			Abracon	ABS06-107-32.768KHZ-T
11	2	C2, C20	CAP CER 4PF 25V NP0 0201		C0201	Kemet	CBR02C409B3GAC
12	2	C12, C17	CAP, 0201, 15PF, 25V, NP0		C0201	AVX	02013A150JAT2A
13	1	FT1	CAP CER 10PF 25V NP0 0201		C0201	Johanson Technology	250R05L100GV4T
14	1	R2	Resistor SMD R0402 0 ohm		R0402	Any	N.M
15	1	FT2			C0201		N.M
16	1	MT	CAP CER 0.40PF 25V NP0 0201		C0201	Johanson Technology	250R05L0R4AV4T
17	2	C32, C34	CAP CERAMIC, 2.2UF, 6.3V, X5R, 0201		C0201	AVX	02016D225MAT2A
18	1	C9	CAP CER 0.22UF 6.3V X7S 0201		C0201	TDK	C0603X7S0J224K030BC
19	1	C30	CAP, MLCC, X5R, 150NF, 10V, 0201		C0201	TDK	C0603X5R1A154K030BB
20	2	C14, C31	CAP CER 100PF 25V NP0 0201		C0201	Johanson Technology	250R05L101JV4T
21	1	ANT1	ANTENNA 2.4GHZ SMD			TDK	ANT016008LCS2442MA1
22	9	C4, C5, C10, C11, C13, C18, C29, C33,	CAP CER 0.1UF 6.3V 10% X5R 0201		C0201	Murata	GRM033R60J104KE19D
23	1	R1	Resistor SMD 560 Ohm		R0201	Any	
24	9	C1, C3, C6, C7, C8, C15, C16, C19, C44	CAP CER 1UF 6.3V X5R 0201		C0201	Samsung	CL03A105KQ3CSNC
25	1	LED	LED, Low Power, Orange, 605 nm, 2 V, 10 mA, 50 mcd		L0201	KINGBRIGHT	KPG-0603SEC-TT
26	1	CONN	Connector Board-to-Board 0.4mm			Hirose	BM10NB(0.8)-16DS-0.4V(51)
27	1	L1	FIXED IND 3.9NH 400MA 300 MOHM		L0201	Murata	LQP03TN3N9B02D
28	1	SWD Cable	5 pin 2.54mm ribbon cable - L=15cm	15cm			

PROJECT NAME: STLCX01V1

BILL OF MATERIALS

Item	Quantity	Reference	Part / Value	Voltage / Watt / Ampere	Type / TECHNOLOGY informations	Tolerance	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number
1	1	CN2	BM10JC-16DP-0.4V(53)					Hirose	BM10JC-16DP-0.4V(53)
2	1	CN5	HEADER 10					Samtec or equivalent	SSQ-110-03-L-S
3	2	CN6,CN9	HEADER 8					Samtec or equivalent	SSQ-108-03-L-S
4	1	CN8	HEADER 6					Samtec or equivalent	SSQ-106-03-L-S
5	5	C1,C5,C10,C13,C14	100nF		X7R		C_0603		
6	2	C4,C6	47uF	6.3V	Tantal		3216-16		
7	4	C8,C9,C11,C12	4.7uF	>6.3V	Tantal	<2 OHM ESR	3216-16		
8	2	C15,C16	4.7uF	10V	X5R		C_0603		
9	1	J1	PHONOJACK STEREO					Switchcraft	35RASMT4BHNRX
10	1	J2	Header M 3x1						
11	4	J3,J4,J5,J6	PCB Hole				not assembly	not assembly	not assembly
12	1	RESET	SYS_MODE					C&K Components	PTS820 J20M SMTR LFS
13	1	R1	47K			1%	R_0603		
14	1	R2	147K			1%	R_0603		
15	11	SB2,SB3,R3,SB4,R4,SB5,SB6,SB7,SB9,SB16,SB17	0R				R_0603		
16	2	R5,R6	4K7				R_0603		
17	14	SB1,SB8,SB10,SB11,SB12,SB13,SB14,SB15,SB18,SB19,SB20,SB21,SB22,SB23	NC				R_0603	not assembly	not assembly
18	1	SWD	CON5						
19	1	SensorTile	SensorTile					not assembly	not assembly
20	1	USB	USB-MICRO				USB-Micro-B	GCT	USB3075-30-A
21	1	U1	USBLC6-2P6				SOT666	STMicroelectronics	USBLC6-2P6
22	1	U3	PCM1774RGP				VQFN20	TI	PCM1774RGP
23	1	U4	LDK120M-R				SOT23-5L	STMicroelectronics	LDK120M-R
24	1	U5	ST2378ETTR				TSSOP20	STMicroelectronics	ST2378ETTR