

## PROJECT NAME: STEVAL-IDI004V2

## 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	C10	4.7uF	6.3V	Ceramic X5R	±10%	SMD 0402	Samsung	CL05A475MQ5NRNC
2	1	C2	4.7uF	10V	Ceramic X5R	±20%	SMD 0805	Samsung	CL21A475MPFNNE
3	2	C3,C9	4.7nF	10V	Ceramic NP0	±5%	SMD 0805	TAIYO YUDEN	LMK105SD472JV-F
4	2	C4,C8	15pF	50V	Ceramic X7R	±10%	SMD 0805	KEMET	C0805C150K5GACTU
5	16	C5,C7,C11,C12,C13,C14,C15,C25,C26,C35,C37,C39,C54,C55,C57,C58	0.1uF	16V	Ceramic X7R	±10%	SMD 0402	MURATA	GRM155R71C104KA88D
6	5	C6,C38,C56,C59,C61	10uF	10V	Ceramic NP0	±10%	SMD 0805	TDK	C2012X7R1A106K125AC
7	2	C18,C19	20pF	50V	Ceramic X7R	±5%	SMD 0402	KEMET	CBR04C200J5GAC
8	1	C36	100pF	16V	Ceramic X7R	±10%	SMD 0402	AVX	0402YC101KAT2A
9	1	C41	1nF	16V	Ceramic X7R	±10%	SMD 0402	AVX	0402YC102KAT2A
10	2	C42,C43	120pF	50V	Ceramic NP0	±5%	SMD 0402	KEMET	C0402C121J5GACTU
11	1	C53	10pF	50V	Ceramic NP0	±2%	SMD 0402	MURATA	GRM1555C1H100GA01D
12	2	C46,C51	7pF	50V	Ceramic NP0	±0.25pF	SMD 0402	MURATA	GJM1555C1H7R0CB01D
13	2	C44,C45	DNM						
14	2	C47,C48	43pF	50V	Ceramic NP0	±5%	SMD 0402	MURATA	GRM1555C1H430JA01D
15	2	C49,C50	10pF	50V	Ceramic NP0	±5%	SMD 0402	KEMET	C0402C100J5GACT
16	1	C52	82pF	50V	Ceramic NP0	±2%	SMD 0402	MURATA	GRM1555C1H820GA01D
17	1	C60	0.1uF	16V	Ceramic X7R	±10%	SMD 0805	TDK	CGJ4J2X7R1C104K125AA
18	1	C34	4.7uF	10V	Ceramic Y5V	±20 %	SMD 0805	PANASONIC	ECJ-GVF1A475Z
19	4	D3, D5, D7, D8	Red LED				TH 3mm, T-1	Kingbright Company LLC	WP710A10LID
20	1	D4	BI-COLOUR LED				TH, R/A	Kingbright Company LLC	WP130WDT/EGW
21	1	F1	PTC RESETTABLE FUSE	6V, 1A			SMD 1206	Bel Fuse Inc	02CJ0100FF2E
22	3	J1,J11, J12	SWD CONNECTOR				TH, 1.27mm	Harwin Inc	M52-5000545
23	1	J2	CONN RCPT MICRO USB AB R/A SMD				SMD	FCI	475890001
24	1	J3	CONN POWER JACK 2.5MM PCB CIRC				TH	CUI Inc	PJ-102B
25	2	J10,J13	CONN HEADER 50POS .100" SGL GOLD				TH, 2.54mm	Samtec	TSW-150-07-L-S
26	2	L12,L14	560nH		Inductor	±5%	SMD 0402	TDK	MLF1005VR56JT000
27	2	L15,L16	1000ohms	200mA	Ferrite Bead	±5%	SMD 0402	TDK	MMZ1005Y102C
28	2	R3,R22	300 OHM	1/10W	Resistor	±5%	SMD 0402	PANASONIC	ERJ-2GEJ301X
29	3	R26,R31,R32	4.7K OHM	1/8W	Resistor	±5%	SMD 0805	PANASONIC	ERJ-6GEYJ472V
30	2	R4,R15	4.7K OHM	1/10W	Resistor	±5%	SMD 0402	PANASONIC	ERJ-2GEJ472X
31	2	R5,R6	22 OHM	1/8W	Resistor	±5%	SMD 0402	PANASONIC	ERJ-6GEYJ220V
32	1	R7	1M OHM	1/8W	Resistor	±5%	SMD 0402	PANASONIC	ERJ-6GEYJ105V
33	1	R8	1.5K OHM	1/8W	Resistor	±5%	SMD 0402	PANASONIC	ERJ-6GEYJ152V
34	1	R27	10K OHM	1/8W	Resistor	±5%	SMD 0805	PANASONIC	ERJ-6GEYJ103V
35	3	R9,R11,R19,	10K OHM	1/10W	Resistor	±5%	SMD 0402	PANASONIC	ERJ-2GEJ103X
36	1	R10	390 OHM	1/10W	Resistor	±5%	SMD 0402	PANASONIC	ERJ-2GEJ391X
37	4	R12,R13,R14,R25,	1K OHM	1/10W	Resistor	±5%	SMD 0805	PANASONIC	ERJ-2GEJ102X
38	3	R28,R29,R30	1K OHM	1/8W	Resistor	±5%	SMD 0805	PANASONIC	ERJ-6GEYJ102V
39	4	R16,R18,R20,R23	3.3K OHM	1/16W	Resistor	±1%	SMD 0402	Samsung Electro-Mechanics America, Inc	RC1005F332CS
40	2	R24,R33	160 OHM	1/8W	Resistor	±1%	SMD 0805	VISHAY	CRCW0805160RFKEA
41	1	SW1	SWITCH TACTILE SPST-NO 0.05A 12V		Switch		TH	C&K Components	PTS645VH83-2 LFS
42	3	SW2,SW3,SW4	SWITCH TACTILE SPST-NO 0.05A 12V		Switch		SMD	Panasonic Electronic Components	EVQ-5PN05K
43	1	U2	Bluetooth® technology class-2 module		Module		SMD	ST	SPBT2632C2A.AT2
44	1	U3	TVS Diode Arrays High Speed Interface Protection Low Cap		ESD protection		SMD	ST	USBLC6-2P6
45	1	U4	High-density performance line ARM-based 32-bit MCU		Microcontoller		SMD	ST	STM32F103RET6
46	1	U5	868 MHz Spirit 1 antenna module		Module		SMD	ST	SP1ML-868
47	1	U6	13.56-MHz multi-protocol contactless transceiver IC		NFC transceiver		SMD	ST	CR95HF-VMD5T
48	1	U7	Wifi module with integrated antenna a		Module		SMD	ST	SPWF01SA.11
49	1	U8	low drop positive voltage regulator		LDO		SMD	ST	LD1117ADT33TR
50	1	D9	TVS SMAJ5.0A-TR		TVS		SMD	ST	SMAJ5.0A-TR
51	1	Y1	CRYSTAL SMD 8MHZ 12PF		Crystal	±30ppm	2-SMD	TXC CORPORATION	7A-8.000MAAE-T
52	1	Y3	CRYSTAL HYBRID SMD 27.12MHZ 6PF		Crystal	±30ppm	4-SMD	MURATA	XRCGB27M120F3M00R0
53	1		JUMPER, 2 PIN, 2.54MM, PCB		Short circuit Jumper			FCI	68786-202
54	4		LED MOUNT 0.160"BLACK (LED Spacer)		LED mount			Bivar Inc	LTM-160