

Document reference:

PCB reference:
MB851_revD_BOM STM32W_SK and STM32W_EXT

Company:
STMicroelectronics

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Index	Quantity	Reference	Value / Generic Part Number	Package	Manufacturer	Manufacturer's ordering code / Orderable Part Number	Supplier	Supplier's ordering code
1	1	BT1	AAA-SCK1	BAT_HOLD_AAA		2x AAA battery holder		
2	5	C1, C2, C16, C21, C22	10nF	0402		10NF, +/-10%, 25V, CERAMIC, X7R, 0402 MURATA GRM155R71E103K		
3	2	C3, C12	8pF	0402		8.0PF, +/-0.5PF, 50V, CERAMIC, C0G, NPO, 0402 MURATA GRM1555C1H8R0DZ01D		
4	1	C4	470nF	0402		0.47UF, +/-10%, 10V, CERAMIC, X5R, 0402 MURATA		
5	2	C5, C6	12pF	0402		12PF, +/-0.25PF, 50V, CERAMIC, C0G, 0402 MURATA GRM1555C1H180JZ01		
6	4	C7, C11, C17, C18	100nF	0402		100NF, +/-10%, 16V, CERAMIC, X7R, 0402 MURATA GRM155R71C104K		
7	1	C8	220pF	0402		220PF, +/-0.5PF, 50V, CERAMIC, C0G, 0402 MURATA GRM1555C1H221JA1		
8	4	C9, C10, C13, R2	DNI	0402		not fitted		
9	10	C14, C23, C24, C28, C29, C30, C31, C32,	100nF	0603		generic capacitor X5R or X7R		
10	3	C15, C26, C35	22pF	0603				
11	1	C19	2.2uF	0603		2.2UF, +/-10%, 16V, CERAMIC, X5R, 0603 MURATA GRM188R61C225K		
12	1	C20	1uF	0402		1.0UF, +/-10%, 6.3V, CERAMIC, X5R, 0402 MURATA GRM155R60J105K		
13	1	C25	10uF	0603		Capacitor		
14	1	C27	33pF	0603		33PF, +/-5%, 50V, CERAMIC, NPO, 0402 MURATA GRM1555C1H330JZ01D		
15	1	C33	4.7uF	0603		4.7UF, +/-10%, 16V, CERAMIC, X5R, 0603 MURATA GRM188R61C475K		
16	1	CAV1	CAV2P	USTRAP2				
17	1	D1	Green LED	0805D		BL-HGE35A		
18	1	D3	Yellow LED	0805D		BL-HKC35A-YELLOW		
19	1	D5	Red LED	0805D		Typical RED GaAs LED Vishay or equivalent		
20	2	D6, D7	DIODE	0603D		CBU200 or equivalent		
21	1	E1	AN0835	ANT_AN0835		Raisun Antenna		
22	1	FLT1	WE748-351-124	WE748351124		Würth Band pass filter		
23	1	IC1	STM32W108CC	UQFN-48		STM32W108CC STMicroelectronics		
24	1	IC2	STM32F103_QFN36	VQFN36		STM32F103 STMicroelectronics		
25	1	J1	MCX	U-FLR-SMT		not fitted		
26	1	J2	USB_MINIB	USB/B MINI		Mini USB connector		
27	1	J3	SMA	SMAT		not fitted		
28	1	JP1	Header 2	PHES-BS002G1ABONG-B104				
29	1	L1	7.5nH	0402		LQP15MN7N5B02 Murata		
30	1	L2	3.3nH	0603		LQG18HN3N3S00D Murata		
31	1	MS1	MetalShield16mm			not fitted		
32	1	P1	Header 14X2	PHED-SS028G1ABONG-B004		Header, 14-Pin, Dual row male		
33	1	P2	Header 3X2	PHED-SS006G1ABONG-B004		Header, 3-Pin, Dual row male		
34	1	P4	Header 10X2	BHED-SC020G1BOBB-B015		Header, 10-Pin, Dual row shrouded male		
35	3	Q1, Q2, Q3	BC846W	SOT323 BC846		NPN General Purpose Transistor BC846W		
36	1	R1	10R	0402		RESISTOR, 10 OHM, +/-5%, 1/16W, 0402		
37	7	R3, R11, R14, R17, R23, R24, R25	10K	0603		RESISTOR, 10 k OHM, +/-5%, 1/16W, 0603		
38	1	R4	180K(1%)	0402		RESISTOR, 180 k OHM, +/-1%, 1/16W, 0402		
39	1	R5	1R	0402		RESISTOR, 1 OHM, +/-5%, 1/16W, 0402		
40	1	R6	10K	0402		RESISTOR, 10 k OHM, +/-5%, 1/16W, 0402		
41	5	R7, R8, R10, R15, R16	1k	0603		RESISTOR, 1k OHM, +/-5%, 1/16W, 0603		
42	1	R9	10R	0603		RESISTOR, 10 R OHM, +/-5%, 1/16W, 0603		
43	1	R12	470R	0603		RESISTOR, 470 R OHM, +/-5%, 1/16W, 0603		
44	2	R19, R21	1k5	0603		RESISTOR, 1k5 OHM, +/-5%, 1/16W, 0603		
45	4	R13, R18, R20, R22	4k7	0603		RESISTOR, 4K7 OHM, +/-5%, 1/16W, 0603		
46	2	Rst1, S1	SW-PB	TSHHV-T-7BL3-6H		Switch 7x7mm		
47	1	T1	WE748-421-245	BALUN_W748-422-245		Balun 50/100 Würth		
48	1	U1	LIS302DL	LGA14AD		Digital MEMS Accelerometer from ST		
49	1	U2	STLM20W87F	TSSOP8		Precision Analog Temperature Sensor from ST		
50	1	U3	LK112M33TR	SOT-23-5		Voltage regulator from ST		
51	1	U4	M24C64MW1	SO8W_N		EEPROM Memory from ST		
52	1	X1	24MHz	2520	NDK or EPSON	24.000MHZ, +/-10PPM TOLERANCE, +/-25PPM Max Temp STABILITY, 12PF, -40 TO +85C		
53	1	X2	32.768kHz	SC3215C	NDK or EPSON	CRYSTAL, 32.768KHZ, +/-20PPM TOLERANCE, 12.5PF, -40 TO +85C		
54	1	X3	8MHz	AGX-S5032A				