

Document reference:

PCB reference:  
**MB851\_revA\_BOM     STM32W\_SK and STM32W\_EXT**

Company:  
**STMicroelectronics**

Contact person:

E-mail:

Phone:

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	18pF	0402		18PF, +/-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	1	C19	2.2uF	0603		2.2UF, +/-10%, 16V, CERAMIC, X5R, 0603 MURATA GRM188R61C225K		
11	1	C20	1uF	0402		1.0UF, +/-10%, 6.3V, CERAMIC, X5R, 0402 MURATA GRM155R60J105K		
12	1	C25	10uF	0603		10UF, +/-10%, 16V, CERAMIC, X5R		
13	1	C26	22pF	0603		22PF, +/-5%, 50V, CERAMIC, C0G, 0402 MURATA GRM1555C1H220JZ01D		
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	D1	Green	0805D		BL-HGE35A		
17	1	D3	Yellow	0805D		BL-HKC35A-YELLOW		
18	1	D5	TSHF5210	LED-1		Typical RED GaAs LED Vishay or equivalent		
19	2	D6, D7	DIODE	0603D		CBU200 or equivalent		
20	1	E1	AN0835	ANT_AN0835		Raisun		
21	1	FLT1	WE748-351-124	WE748351124		Würth Band pass filter		
22	1	IC1	STM32W108	VQFN-48-PROD		STM32W108 STMicroelectronics		
23	1	IC2	FT232R	SSOP28		FT232R FTDI SSOP28		
24	1	J1	MCX	U-FLR-SMT		Hirose UFL Connector Not fitted		
25	1	J2	USB_MINIB	USB/B MINI		Mini USB connector		
26	1	JP1	Header 2	BS002G1ABON		Header, 2-Pin male		
27	1	L1	7.5nH	0402		LQP15MN7N5B02 Murata		
28	1	L2	3.3nH	0603		3.3NH, +/- 0.3NH, 500MA, MULTILAYER FILM, O603 MURATA LQG18HN3N3S00D		
29	1	MS1	MetalShield16mm	MetalShield_16 mm		not fitted		
30	1	P1	Header 14X2	SS028G1ABON		Header, 14-Pin, Dual row male		
31	1	P2	Header 3X2	SS006G1ABON		Header, 3-Pin, Dual row male		
32	1	P3	Debug/Trace	FTSH-105-01-F-DV-K		Header, 5-Pin, Dual row SAMTEC Not fitted		
33	1	P4	Header 10X2	SC020G1BOBB-		Header, 10-Pin, Dual row shrouded male		
34	3	Q1, Q2, Q3	BC846W	SOT323 BC846		NPN General Purpose Transistor BC846W		
35	1	R1	10R	0402		RESISTOR, 10 OHM, +/-5%, 1/16W, 0402 YAGEO RC0402JR-0710R		
36	4	R3, R11, R14, R17	10K	0603		RESISTOR, 10 k OHM, +/-5%, 1/16W, 0603 PANASONIC		
37	1	R4	180K(1%)	0402		RESISTOR, 180 k OHM, +/-1%, 1/16W, 0402 PANASONIC		
38	1	R5	1R	0402		RESISTOR, 1 OHM, +/-5%, 1/16W, 0402 PANASONIC		
39	1	R6	10K	0402		RESISTOR, 10 k OHM, +/-5%, 1/16W, 0402 PANASONIC		
40	5	R7, R8, R10, R15, R16	1k	0603		RESISTOR, 1k OHM, +/-5%, 1/16W, 0603 PANASONIC		
41	1	R9	10R	0603		RESISTOR, 10 R OHM, +/-5%, 1/16W, 0603 PANASONIC		
42	1	R12	470R	0603		RESISTOR, 470 R OHM, +/-5%, 1/16W, 0603 PANASONIC		
43	2	Rst1, S1	SW-PB	TSHHV-T-7BL3-6H		Switch 7x7mm		
44	1	T1	WE748-421-245	422-245		Balun 50/100 Würth		
45	1	U1	ST: LIS302DL	LGA14AD		Digital MEMS Accelerometer		
46	1	U2	ST: STL2M20W87F	TSSOP8		Precision Analog Temperature Sensor		
47	1	U3	LK112M33TR	SOT-23-5		Voltage regulator		
48	1	X1	24MHz	YOKE 2520		24.000MHZ, +/-10PPM TOLERANCE, +/-25PPM STABILITY, 18PF, -40 TO +85C		
49	1	X2	32.768kHz	SC3215C		CRYSTAL, 32.768KHZ, +/-20PPM TOLERANCE, 12.5PF, -40 TO +85C		