MBot Control Board V1.0

2 [3 3 2 4 4 4 5 2 5 2 6 6 6 7 2 2 8 2 10 11 1 12 2 13 4 15 16 5 16 6 5 16 6 5 16 6 5 16 6 6 6 16 6 16 6 16 6 16 6 16 6 16 6 16 1	200kΩ DRV8876PWPR X6521WV-2×03H-C30D60 49.9kΩ 2.54-1*4P母 Header-Male-2.54_1x4 220nF 25V 220nF 100nF 1uF 220nF 470nF 100uF 35V 22uF 25V SS54_C22452 Header-Male-2.54_1x6	R26 DRV0,DRV1,DRV2 J1 R27 P2 J14,J7,J8,J10,J11,J12,J13 C1,C24,C25 C2,C3,C6 C4,C5,C7 C8,C9,C10 C11 C12,C13,C15,C16,C17,C18 C14 C19 C20,C21,C22,C23,C26	R0402 HTSSOP-16_L5.0-W4.4-P0.65-LS6.4-BL-EP HDR-TH_6P-P2.54-V-M-R2-C3-S2.54 R0402 HDR-TH_4P-P2.54-V-F HDR-TH_4P-P2.54-V-M-1 C0603 C0603 C0603 C0603 C0402 C0402 C0402 CAP-SMD_BD6.3-L6.6-W6.6-LS7.6-FD	1 3 1 1 1 7 3 3 3 3 1 6
3) 4 4 4 5 2 6 H 7 2 4 10 11 11 11 11 11 11 11 11 11 11 11 11	X6521WV-2×03H-C30D60 49.9kΩ 2.54-1*4P母 Header-Male-2.54_1x4 220nF 25V 220nF 22nF 100nF 1uF 220nF 470nF 100uF 35V 22uF 25V SS54_C22452	J1 R27 P2 J14,J7,J8,J10,J11,J12,J13 C1,C24,C25 C2,C3,C6 C4,C5,C7 C8,C9,C10 C11 C12,C13,C15,C16,C17,C18 C14 C19	HDR-TH_6P-P2.54-V-M-R2-C3-S2.54 R0402 HDR-TH_4P-P2.54-V-F HDR-TH_4P-P2.54-V-M-1 C0603 C0603 C0603 C0603 C0402 C0402 C0402	1 1 1 7 3 3 3 3 1 6
4 4 4 5 2 6 H 7 2 6 H 8 2 9 2 10 11 11 12 2 11 13 4 11 15 2 11 16 8	49.9kΩ 2.54-1*4P母 Header-Male-2.54_1x4 220nF 25V 220nF 100nF 1uF 220nF 470nF 100uF 35V 22uF 25V SS54_C22452	R27 P2 J14,J7,J8,J10,J11,J12,J13 C1,C24,C25 C2,C3,C6 C4,C5,C7 C8,C9,C10 C11 C12,C13,C15,C16,C17,C18 C14 C19	R0402 HDR-TH_4P-P2.54-V-F HDR-TH_4P-P2.54-V-M-1 C0603 C0603 C0603 C0603 C0402 C0402 C0402	1 1 7 3 3 3 3 1 6
5 2 6 H 7 2 8 2 9 2 10 11 11 12 2 11 13 4 15 2 16 8	2.54-1*4P母 Header-Male-2.54_1x4 220nF 25V 220nF 22nF 100nF 1uF 220nF 470nF 100uF 35V 22uF 25V SS54_C22452	P2 J14,J7,J8,J10,J11,J12,J13 C1,C24,C25 C2,C3,C6 C4,C5,C7 C8,C9,C10 C11 C12,C13,C15,C16,C17,C18 C14 C19	HDR-TH_4P-P2.54-V-F HDR-TH_4P-P2.54-V-M-1 C0603 C0603 C0603 C0603 C0402 C0402 C0402	1 7 3 3 3 3 1 6
6 H 7 2 8 2 9 2 10 11 12 2 13 4 15 2 16 3	Header-Male-2.54_1x4 220nF 25V 220nF 22nF 100nF 1uF 220nF 470nF 100uF 35V 22uF 25V	J14,J7,J8,J10,J11,J12,J13 C1,C24,C25 C2,C3,C6 C4,C5,C7 C8,C9,C10 C11 C12,C13,C15,C16,C17,C18 C14 C19	HDR-TH_4P-P2.54-V-M-1 C0603 C0603 C0603 C0603 C0402 C0402 C0402	7 3 3 3 3 1 6
7 2 8 2 9 2 10 11 12 2 13 4 14 15 2 16 5	220nF 25V 220nF 22nF 100nF 1uF 220nF 470nF 100uF 35V 22uF 25V SS54_C22452	C1,C24,C25 C2,C3,C6 C4,C5,C7 C8,C9,C10 C11 C12,C13,C15,C16,C17,C18 C14 C19	C0603 C0603 C0603 C0603 C0402 C0402 C0402	3 3 3 3 1 6
8 2 9 2 10 11 12 2 13 4 14 15 2 16 5	220nF 22nF 100nF 1uF 220nF 470nF 100uF 35V 22uF 25V SS54_C22452	C2,C3,C6 C4,C5,C7 C8,C9,C10 C11 C12,C13,C15,C16,C17,C18 C14 C19	C0603 C0603 C0603 C0402 C0402	3 3 3 1 6
9 2 10 1 11 2 12 2 13 4 14 1 15 2 16 8	22nF 100nF 1uF 220nF 470nF 100uF 35V 22uF 25V SS54_C22452	C4,C5,C7 C8,C9,C10 C11 C12,C13,C15,C16,C17,C18 C14 C19	C0603 C0603 C0402 C0402	3 3 1 6
10 11 12 2 13 4 14 15 2 16 S	100nF 1uF 220nF 470nF 100uF 35V 22uF 25V SS54_C22452	C8,C9,C10 C11 C12,C13,C15,C16,C17,C18 C14 C19	C0603 C0402 C0402 C0402	3 1 6 1
11 12 2 13 4 14 15 2 16 S	1uF 220nF 470nF 100uF 35V 22uF 25V SS54_C22452	C11 C12,C13,C15,C16,C17,C18 C14 C19	C0402 C0402 C0402	1 6
12 2 13 4 14 1 15 2 16 5	220nF 470nF 100uF 35V 22uF 25V SS54_C22452	C12,C13,C15,C16,C17,C18 C14 C19	C0402	6
13 4 14 1 15 2 16 3	470nF 100uF 35V 22uF 25V SS54_C22452	C14 C19	C0402	1
14 15 2 16 8	100uF 35V 22uF 25V SS54_C22452	C19		
15 2 16 3	22uF 25V SS54_C22452		CAP-SMD_BD6.3-L6.6-W6.6-LS7.6-FD	1
16	SS54_C22452	C20,C21,C22,C23,C26		
	_		C0805	5
4- 1	Header-Male-2.54_1x6	D1,D2	SMA_L4.4-W2.8-LS5.4-R-RD	2
17 H		J2,J3	HDR-TH_6P-P2.54-V-M-1	2
18 H	Header-Male-2.54_1x6	J4,J5,J6	HDR-TH_6P-P2.54-V-M	3
19	B3B-ZR-(LF)(SN)	J9	CONN-TH_B3B-ZR	1
		LED1,LED2	LED0603-R-RD_RED	2
21	RED	LED3	LED0603-R-RD RED	1
22	Header-Female-2.54_1x20	P1,P3	HDR-TH_20P-P2.54-V-F	2
	1k	R1,R3,R5,R6,R11,R13	R0603	6
24	10K	R2,R4,R12	R0603	3
25 2	220Ω	R7,R14,R8	R0603	3
26 2	20K	R9,R10,R15	R0603	3
27	1.8k	R16,R17,R18,R19,R20,R21	R0603	6
28 4	4.7K	R22,R23,R24,R25	R0402	4
29	10kΩ	R28,R29	R0603	2
30	75kΩ	R30	R0603	1
31 4	470Ω	R31	R0402	1
32 5	SN74LVC1G19DBVR	U2	SOT-23-6_L2.9-W1.6-P0.95-LS2.8-BL	1
33	BMP280	U7	SENSOR-TH_BMP280-BL	1
34	BMM150	U8	WLCSP-12_L1.6-W1.6_BMM150	1
	MB85RC04V	U9	SOIC-8_L5.0-W4.0-P1.27-LS6.0-BL	1
	TPS7B6950DBVR	U10	SOT-23-5_L3.0-W1.7-P0.95-LS2.8-BL	1
	TPS565201DDCR	U11	TSOT-23-6_L2.9-W1.6-P0.95-LS2.8-BL	1
	TF-01A_C2889258	CARD1	TF-SMD_TF-02	1
	Blue	LED4	LED0603-RD_BLUE	1
40 [DC-005-A200	DC1	DC-IN-TH_DC-005-A200	1
	X6511WV-03H-C30D60	H1	HDR-TH_3P-P2.54-V-M	1
	LM4040CIM3-3.0/NOPB	U1	SOT-23-3_L2.9-W1.6-P1.90-LS2.8-BR	1
	0466005.NR	F1	F1206	1
	2.2uH	L1	IND-SMD_L5.2-W5.1	1
	DSHP03TS-S	SW2	SW-SMD_DSHP03TS-S	1
	KF396-3.96-2P	CONN1	CONN-TH_P3.96_KF396-3.96-2P	1
	YTS-A011-1B	SW1	SW-SMD_L4.0-W3.0-LS4.6	1
	BHI160B	U6	LGA-24_L3.0-W3.0-P0.40-TL	1