

## ORCBoard Parts List

Reference Designators	Part name	Value	Note	Digikey
C1, C2, C6, C9, C11, C15, C16, C18, C20	CAP-CX12-B	100uF		P5152-ND
C3	CAP0805	33nF		478-1389-1-ND
C4	CAP-CX12-B	100uF	This part is NOT needed.	P5152-ND
C5, C10	CAP-CX12-B	10uF		P5178-ND
C7, C8, C24, C29, C30 C32, C35	CAP0805	100nF		PCC1853CT-ND
C12, C33, C34, C37	CAP0805	10uF		PCC2233CT-ND
C13, C23, C27, C31, C36	CAP0805	1uF		PCC1849CT-ND
C14	CAP1210	.1uF		399-1267-1-ND
C17, C19, C21	CAP-CX12-B	33uF		P10320-ND
C22, C25, C26, C28	CAP0805	10nF	This part is NOT needed.	399-1158-1-ND
D1, D2	Rx, Tx LED			67-1068-ND
D3, D4	DIODE	1N4148		1N4148WDICT-ND
D5	Pwr LED			67-1068-ND
D6	Orc LED			67-1080-ND
D7	CPU LED			67-1080-ND
D8	6CWQ03FN			6CWQ03FN-ND
D9	USB LED		This part is NOT needed.	67-1062-ND
F1, F2	POLYFUSE			RUE400-ND
H1	PowerReceptacle DF-22		12V SLA Battery	H2776-ND
I1, I2	IND-M2093-ND			M2093-ND
J1	DB9		DB9	182-709F-ND
J2 / MOT0	CON-SIP2-156			WM4600-ND
J3			This part is NOT needed.	
J4 / MOT1	CON-SIP2-156			WM4600-ND
J5	HEADER 2 X 5		TO ORCPAD	WM7180-ND
J6	female header		Double row female 3-pin header	
J7			This part is NOT needed.	
J8	female header		QPDS	
J9	female header		QPDS	
J10	female header		A8-15 S	
J11	female header		A8-15 +	
J12	female header		A8-15 -	
J13 / MOT2	CON-SIP2-156			WM4600-ND
J14 / MOT3	CON-SIP2-156			WM4600-ND

Reference Designators	Part name	Value	Note	Digikey
J15	female header		I2C	
J16	female header		I2C	
J18	female header		SA-Re S	
J19	female header		SA-Re S2	
J20	female header		SA-Re +	
J21	female header		SA-Re -	
J22	CONDISKDRIVE		(next to U6)	WM6986-ND
J23	PJ202AH		13.8 VDC POS TIP	CP-202AH-ND
J24	female header		Qa-Qb S	
J25	female header		Qa-Qb +	
J26	female header		Qa-Qb -	
J27	female header		Qa-Qb S2	
Ju1, Ju2	DIPSOCKET28			ED3128-ND
Ju3, Ju4, Ju5	DIPSOCKET20			AE8920-ND
Ju7	DIPSOCKET32_600		This part is NOT needed.	A24812-ND
L2	PM5022			M9752CT-ND
R1, R3, R5, R7, R8, R9	RES1210		0.2	P.18SCT-ND
R2, R4, R6, R10, R17, R15, R16	RES0805	33k		RHM33.0KCCT-ND
R11, R12	RES0805	3k	This part is NOT needed.	RHM3.00KCCT-ND
R13	RES0805	3k		RHM3.00KCCT-ND
R14	RES0805	12k		311-12.0KCCT-ND
S1	SWITCHL2020		ORC Switch	CKC5103-ND
S2	SWITCHL2020		CPU Switch	CKC5103-ND
U1, U2	CY26443-28PDIP		Cypress PSOC	428-1586-ND
U3	MAX203E		RS232 Transceiver	MAX233CP-ND
U4, U5	L6205N		Dual Full Bridge Driver	MAX233CP-ND
U6	LM2678			LM2678-5.0-ND
U7	USBMOD3		This part is NOT needed.	

Note: Some reference designators are not on the ORCboard (oops, they should be). When you can not find a reference designator, use the ORCboard layout handout. Find the location of the marking on the PCB on the layout handout. The marking will have a reference designator on the layout sheet.