

WYOLUM : CLOCKTHREE-JUNIOR (C3Jr_v2) PARTS LIST

Part	Value	Package	Vendor	Vendor P/N	NOTE1	NOTE 2
BT1	BATT_RTC	CR2032	DigiKey	3003K-ND		
*	3V CR2032 Battery		DigiKey	P189-ND	Coin Battery for BT1 socket	
C3, C6, C7, C9, C10	100n	C2	DigiKey	399-5863-ND		
C1, C2, C8	100u	CP_5x11mm	DigiKey	P833-ND	C1, C2 required only if cascading C3Jr units	
C11, C12	22p	cnp_3mm_disc	DigiKey	BC1034CT-ND	Optional	if using crystal
CD1, CD2, CD3	CDOT1	pin_strip_4			Optional	if using ChronoDot
D1 ~ D128	LED	led_5mm_clear	DigiKey	C535A-WJN-CU0V0231-ND		
D258	DBG	led_5mm_blue	Generic	Any 3mm/5mm LED/Color	Optional	
D260	PWR	led_5mm_blue	Generic	Any 3mm/5mm LED/Color	Optional	
DIL-U1	STP16DP05	SCK-24_600_ELL	DigiKey	3M5479-ND	Optional	if using rowBoB
J1	V_IN	con-hirose-UX60-MB-5S8	DigiKey	H2960CT-ND	USB-Mini connector	
J2	V_IN	Con-usb-USB-B-H	DigiKey	ED2982-ND	USB-B, Optional, instead of J1 or J3	
J3	V_IN	JACK_ALIM	DigiKey	CP-002B-ND	Barrel socket, Optional, instead of J1 or J2	
K1	PWR_SEL	pin_strip_3	DigiKey	SAM1031-50-ND		
*	Jumper		DigiKey	XG8T-0231-ND	Shorting Link (Jumper) for PWR_SEL	
K2	LED_ENABLE	pin_strip_3	DigiKey	SAM1031-50-ND		
*	Jumper		DigiKey	XG8T-0231-ND	Shorting Link (Jumper) for PWR_SEL	
K3	7Seg_Sel	7Seg_Sel	--	--	Solder Bridge for uC pin selection	
K4	SCL	pin_strip_2	--	--	Link for INT RTC, OPEN for EXT RTC	
K5	SDA	pin_strip_2	--	--	Link for INT RTC, OPEN for EXT RTC	
P1	7SegDisp	pin_strip_8	Sparkfun	COM-09766	Optional, 7 segment 4 digit display	
P7	FTDI	pin_strip_6-90	DigiKey	SAM1043-50-ND		
P12	V_OUT	pin_strip_3	DigiKey	SAM1031-50-ND	Optional	5V output
P13	ISP	pin_strip_3x2	DigiKey	SAM1095-36-ND	Optional	
P41	STACK-L	pin_sck_4-90	DigiKey	SAM1009-50-ND		
P42	STACK-R	pin_strip_4-90	DigiKey	SAM1043-50-ND		
Q1 ~ Q17	2N5401	to92_2N5401	DigiKey	2N5401GOS-ND		
R1 ~ R16	100E	rc03_vert	DigiKey	CF18JT100RCT-ND		
R17, R18, R19, R22, R23, R31, R36, R37, R38	10k	RC03	DigiKey	CF18JT10K0CT-ND		
R20, R21	4k7	RC03	DigiKey	CF18JT4K70CT-ND		
R24, R25, R26	1k	RC03	DigiKey	CF18JT1K00CT-ND		
R30	100E	RC03	DigiKey	CF18JT100RCT-ND		
R32	LDR	pin_strip_2	DigiKey	PDV-P9007-ND	Optional	
R33, R35	680E	RC03	DigiKey	CF18JT680RCT-ND		

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R34	2k	Pot-Var2	DigiKey	CF18JT2K00CT-ND		
SP1	SPEAKER	Speaker	DigiKey	102-1169-ND		
SW1	INC	SW_PB_V	DigiKey	450-1657-ND		
SW2	DEC	SW_PB_V	DigiKey	450-1657-ND		
SW3	MODE	SW_PB_V	DigiKey	450-1657-ND		
SW4	RST	SW_PB_V	DigiKey	450-1657-ND		
SW5	ENTER	SW_PB_V	DigiKey	450-1657-ND		
SW12	INC	SW-PB-MOD	DigiKey	450-1650-ND	Optional, for rear mount, in place of SW1	
SW22	DEC	SW-PB-MOD	DigiKey	450-1650-ND	Optional, for rear mount, in place of SW2	
SW32	MODE	SW-PB-MOD	DigiKey	450-1650-ND	Optional, for rear mount, in place of SW3	
SW42	RST	SW-PB-MOD	DigiKey	450-1650-ND	Optional, for rear mount, in place of SW4	
SW52	ENTER	SW-PB-MOD	DigiKey	450-1650-ND	Optional, for rear mount, in place of SW5	
U2	7805	TO-220_Horizontal			Optional, if using wall wart >5V DC	
U3	ATMEGA8-P	dil_28-300_socket	DigiKey	ATMEGA328-PU-ND		
*	Socket for U3		DigiKey	A100210-ND		
U4	74HC154	DIP-24__600_ELL	DigiKey	568-1407-5-ND		
*	Socket for U4		DigiKey	3M5479-ND		
U1	STP8DP05	dil_16-300_socket	DigiKey	497-6271-5-ND		
*	Socket for U5		DigiKey	A32870-ND		
U6	DS3231N	DS3231	DigiKey	DS3231S#-ND		
X1	16MHz	XTAL	DigiKey	X908-ND		

OTHER PARTS						
BF1	Baffle	BAFFLE			Angus Hines	
BP1	BackPlate	BackPlate			Angus Hines	
P8,P9,P10,P11,P14,P15,P53,P54	vite_4mm	CONN_1			Fixing Screws for Board and Baffle	
P43	Pad01	CONN_1			Break Out Pad, no component	
P49 ~ P52, rowBoB1	vite_3mm	CONN_1			Fixing Screws for rtcBoB and rowBoB	
P24 ~ P39	PROTO-6	DIL6			Prototyping area	
FM1	Frame	FRAME			Ikea or None	
FP1	FacePlate	FacePlate			Angus Hines	
PCB1	PCB	PCB			Main Board, seeed	
G1	Logo-WL3	Logo-WL3			--	
G***	OSHW_6mm	LOGO			--	