

C3Jr_v2 : PARTS LIST (BoM)

ref	value	Vendor	Vendor P/N	NOTE1	NOTE 2
BT1	BATT_RTC	DigiKey	3003K-ND		
*	3V CR2032 Battery	DigiKey	P189-ND		2032 Coin Battery for BT1 socket
C1, C2, C8	100u	DigiKey	P833-ND		100uF/16V. C1, C2 only required if cascading C3Jr.
C3, C4, C5, C6, C7, C9, C10	100n	DigiKey	399-5863-ND		
C11, C12	22p	DigiKey	BC1034CT-ND	Optional	if using crystal instead of resonator
CD1, CD2, CD3	CDOT1			Optional	if using I2SD, rtcBoB or ChronoDot, Header, 4 pin
D1 to D128	LED	DigiKey	C535A-WJN-CU0V0231-ND		CREE LED 5mm Cool White Clear 110deg
D258	DBG	Generic	3mm or 5mm LED, any Color	Optional	Debug LED
D260	PWR	Generic	3mm or 5mm LED, any Color	Optional	Power On LED
DIL-U1	STP16DP05	DigiKey	3M5479-ND	Optional	if using rowBoB, 24 pin IC socket
J1	V_IN	DigiKey	H2960CT-ND	Optional	USB-Mini Socket
J2	V_IN	DigiKey	ED2982-ND		USB-B, Socket
J3	V_IN	DigiKey	CP-002B-ND	Optional	Barrel socket
K1	PWR	DigiKey	SAM1031-50-ND		Header, 3 pin, for PWR_SEL
*		DigiKey	XJ8A-0211-ND		Jumper socket for PWR_SEL K1
K2	LED_ENABLE	DigiKey	SAM1031-50-ND		Header, 3 pin, for LED_ENABLE
*		DigiKey	XJ8A-0211-ND		Jumper socket for LED_ENABLE K2
K3	7Seg_Sel	--	--		Solder Bridge for uC pin selection
K4	SCL	DigiKey	SAM1031-50-ND		Header, 3 pin, Link for INT RTC, OPEN for EXT RTC
*		DigiKey	XJ8A-0211-ND		Jumper socket for SCL, K4
K5	SDA	DigiKey	SAM1031-50-ND		Header, 3 pin, Link for INT RTC, OPEN for EXT RTC
*		DigiKey	XJ8A-0211-ND		Jumper socket for SDL, K5
P1	7SegDisp	Sparkfun	COM-09766	Optional	7 segment 4 digit display
P7	FTDI	DigiKey	SAM1043-50-ND		Header, 6 pin, right angle
P13	ISP	DigiKey	SAM1095-36-ND	Optional	Header, 3x2 pin
P24 to P39	DIL6	--	Prototyping area		hacking area
P41	STACK-L	DigiKey	SAM1009-50-ND	Optional	Socket, 4 pin, right angle, for daisy-chaining boards
P42	STACK-R	DigiKey	SAM1043-50-ND	Optional	Header, 4 pin, right angle, for daisy-chaining boards
P43	CONN_1	--	Break Out Pad, no component		ATMega Port PC2
PCB1	PCB	--	Main Board, seeed		
Q1 to Q17	2N5401	DigiKey	2N5401GOS-ND		
R1 to R16	100	DigiKey	CF18JT100RCT-ND		
R17, R18, R19, R22, R23, R31, R36, R37, R38	10k	DigiKey	CF18JT10K0CT-ND		
R20, R21	4k7	DigiKey	CF18JT4K70CT-ND		
R24, R25, R26,	1k	DigiKey	CF18JT1K00CT-ND		
R30	100E	DigiKey	CF18JT100RCT-ND		
R32	LDR	DigiKey	PDV-P9007-ND	Optional	or add 2 pin socket
R33, R35	680E	DigiKey	CF18JT680RCT-ND		
R34	2k	DigiKey	CF18JT2K00CT-ND		
SP1	SPEAKER	DigiKey	102-1169-ND		
SW1	INC	DigiKey	450-1657-ND		

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SW2	DEC	DigiKey	450-1657-ND		
SW3	MODE	DigiKey	450-1657-ND		
SW4	RST	DigiKey	450-1657-ND		
SW5	ENTER	DigiKey	450-1657-ND		
SW12	INC	DigiKey	450-1650-ND	Optional	for rear mount, in place of SW1
SW22	DEC	DigiKey	450-1650-ND	Optional	for rear mount, in place of SW2
SW32	MODE	DigiKey	450-1650-ND	Optional	for rear mount, in place of SW3
SW42	RST	DigiKey	450-1650-ND	Optional	for rear mount, in place of SW4
SW52	ENTER	DigiKey	450-1650-ND	Optional	for rear mount, in place of SW5
U1	STP8DP05	DigiKey	497-6271-5-ND		
*	Socket STP8DP05	DigiKey	A100206-ND		Socket for IC
U2	7805	DigiKey	MC7805CTGOS-ND	Optional	if using wall wart with >5V output
U3	ATMEGA8-P	DigiKey	ATMEGA328-PU-ND		
*	Socket ATMEGA8-P	DigiKey	A100210-ND		Socket for IC
U4	74HC154	DigiKey	568-1407-5-ND		
*	Socket 74HC154	DigiKey	3M5479-ND		Socket for IC
U6	DS3231N	DigiKey	DS3231S#-ND		
X1	16MHz	DigiKey	X908-ND		

OTHER PARTS

BF1	BAFFLE	Angus Hines
BP1	BackPlate	Angus Hines
FM1	FRAME	Ikea or None
FP1	FacePlate	Angus Hines
P8	CONN_1	Fixing Screw for Board
P9	CONN_1	Fixing Screw for Board
P10	CONN_1	Fixing Screw for Board
P11	CONN_1	Fixing Screw for Board
P14	CONN_1	Fixing Screw for Baffle
P15	CONN_1	Fixing Screw for Baffle
P49	CONN_1	Fixing Screw for rtcBoB
P50	CONN_1	Fixing Screw for rtcBoB
P51	CONN_1	Fixing Screw for rtcBoB
P52	CONN_1	Fixing Screw for rtcBoB
P53	CONN_1	Fixing Screw for Baffle
P54	CONN_1	Fixing Screw for Baffle
rowBoB1	CONN_1	Fixing Screw for rowBoB