

LCD Clock V2 Parts List

	Part	Qty	Source	Price (ea)	Total	Link / Part Number
Logic	Atmega 328p SMD	1	DigiKey	\$3.85	\$3.85	ATMEGA328P-AURCT-ND
	SMD 16MHz crystal	1	DigiKey	\$0.58	\$0.58	887-1104-1-ND
	0805 10K resistor	3	Common	\$0.01	\$0.03	
	0805 22pF cap	2	Common	\$0.01	\$0.02	
	6 pin ICSP header	1	Common	\$0.05	\$0.05	
	6 pin FTDI header	1	SparkFun	\$0.95	\$0.95	https://www.sparkfun.com/products/9015
RTC	DS3231	1	eBay	\$1.90	\$1.90	
	12mm CR1220 battery holder	1	DigiKey	\$0.32	\$0.32	BK-890-ND
	CR1220 battery	1	DigiKey	\$0.90	\$0.90	SY033-ND
	0805 10K resistor	3	Common	\$0.01	\$0.03	
	0805 .1uF cap	1	Common	\$0.01	\$0.01	
Alarm	speaker	1	DigiKey	\$1.53	\$1.53	458-1127-ND
	0805 100 ohm resistor	1	Common	\$0.01	\$0.01	
	0805 LED resistor	1	Common	\$0.01	\$0.01	
	SMD 1206 LED	1	Common	\$0.05	\$0.05	
Audio Amp	TPA2005D1	1	DigiKey	\$1.26	\$1.26	296-26876-1-ND
	1 uF Cap	2	common	\$0.01	\$0.02	
	150K resistor	1	common	\$0.01	\$0.01	
	10K	2	common	\$0.01	\$0.02	
	300 ohm	1	DigiKey	\$0.05	\$0.05	
	SMD 1206 LED	1	SparkFun	\$0.06	\$0.06	
	10 uF	1	DigiKey	\$0.11	\$0.11	
	MMBT2222A (NPN) 30V	1	DigiKey	\$0.10	\$0.10	MMBT2222ALT3GOSCT-ND
Other	0805 2.2K resistor	3	Common	\$0.01	\$0.03	
	USB socket	1	SparkFun	\$0.95	\$0.95	https://www.sparkfun.com/products/8944
	USB power cord	1	common	n/a		
	12x12x12mm switches	4	eBay	\$0.80	\$3.20	
	16x2 LCD	1	SparkFun	\$14.95	\$14.95	
	10K trim pot	1	DigiKey	\$1.04	\$1.04	490-2644-1-ND
	PCB (3@\$44.85)	1	OSH Park	\$14.95	\$14.95	http://oshpark.com
	3/4" 4-40 screw	4	eBay	\$0.02	\$0.08	
	1/4" 4-40 screw	4	eBay	\$0.02	\$0.08	
	4-40 spacers	4	laser-cut	n/a		
	1/4" standoffs	4	DigiKey	\$0.33	\$1.32	3478K-ND
	3/8 standoffs	4	DigiKey	\$0.36	\$1.44	3479K-ND
	laser-cut acrylic 100x80 mm	1	Pinoco	n/a		
			TOTAL		\$49.91	