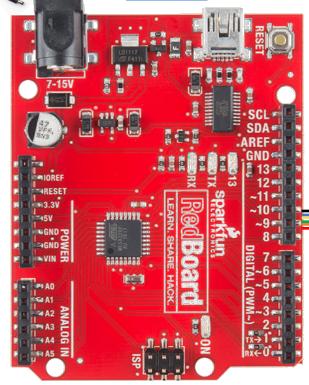
The **BIGLED** Wall Clock

Need Power – The microprocessor and peripherals run on 5v but the BIGLED digits needs 12V at up to 300ma with all digits lit (6x300 = 1.8A needed just for the digits)

12V 5A Switching Power Supply (Adafruit 352)



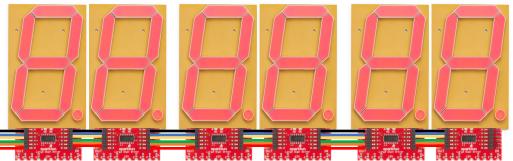
Arduino UNO rev3 8-bit microprocessor based on the Amtel ATmega328P processor (Sparkfun Redboard 12757)



56-Channel GPS Receiver - GP-735 (Sparkfun GPS-13670)

Sets clock module first time and periodically updates. The GPS module delivers ultra accurate time - a byproduct necessary to deliver provide positioning

6.5" 7-Seament Displays (Sparkfun COM-08530)



Large Digit Driver using TI TPIC6C596 Power Logic 8-Bit Shift Register chip (Sparkfun 13279)

Clock module holds the time with 9 year battery backup



Ultra low power OLED display for backup and GPS time setting



Extremely Accurate I2C-TCXO/basedclock module using Maxim DS3231 I2C Bus Accuracy ±2ppm from 0°C to +40°C

128x32 SPI OLED graphic display (Adafruit 661)

















The **BIGLED** Wall Clock

So what did the basic electronics cost and did they come from?



Schedule of Components	Stock No.	#	Ea.
SparkFun 6" 7-segment LED	COM-08530	6	\$14.95
SparkFun Large Digit Driver	WIG-13279	6	\$6.95
SparkFun RedBoard - Programmed with Arduino	DEV-12757		
SparkFun GPS Receiver - GP-735 (56 Channel)	GPS-13670		
Adafruit Monochrome 128x32 SPI OLED graphic display	661		
Adafruit Chronodot v2.1	255		
SparkFun USB Mini-B Cable - 6 Foot	CAB-11301		
SparkFun Jumper Wire - 0.1", 6-pin, 12"	PRT-10376	2	\$1.95

























Total

\$88.70 \$41.70 \$19.95 \$39.95 \$17.50 \$17.50















