

Bill of Materials: HSU Main Board

Wednesday, February 6 2013

Assembly List

Label	Part Type	Properties
9V VCC	Battery block 9V	voltage 9V
J1	Generic female header - 7 pins	package THT; gender ♀; hole shape Square; pins 7; pin spacing 0.1in (2.54mm)
JY-MCU	Generic female header - 4 pins	package THT; gender ♀; hole shape Square; pins 4; pin spacing 0.1in (2.54mm)
LED2	RGB LED (com. cathode, rgb)	package 5 mm [THT]; pin order rgb; polarity common cathode; rgb RGB
Nano	Arduino Nano v3.0	processor ATmega; variant Arduino Nano v3.0
R1	10k Ω Resistor	package THT; resistance 10k Ω ; rated power 0.25 watt; footprint 400 mil
R2	10k Ω Resistor	package THT; resistance 10k Ω ; rated power 0.25 watt; footprint 400 mil
R3	10k Ω Resistor	package THT; resistance 10k Ω ; rated power 0.25 watt; footprint 400 mil
R4	150 Ω Resistor	package THT; resistance 150 Ω ; rated power 0.25 watt; footprint 400 mil
R5	100 Ω Resistor	package THT; resistance 100 Ω ; rated power 0.25 watt; footprint 400 mil
R6	100 Ω Resistor	package THT; resistance 100 Ω ; rated power 0.25 watt; footprint 400 mil
S1	Pushbutton	package [THT]
S2	Toggle Switch	package THT; switching circuit SPDT
U1	Voltage Regulator - 5V	package TO220 [THT]; voltage 5V

Shopping List

Amount	Part Type	Properties
1	RGB LED (com. cathode, rgb)	package 5 mm [THT]; pin order rgb; polarity common cathode; rgb RGB
1	Generic female header - 4 pins	package THT; gender ♀; hole shape Square; pins 4; pin spacing 0.1in (2.54mm)
1	Generic female header -	package THT; gender ♀; hole shape Square; pins 7; pin

Amount	Part Type	Properties
	7 pins	spacing 0.1in (2.54mm)
2	100 Ω Resistor	package THT; resistance 100 Ω ; rated power 0.25 watt; footprint 400 mil
3	10k Ω Resistor	package THT; resistance 10k Ω ; rated power 0.25 watt; footprint 400 mil
1	150 Ω Resistor	package THT; resistance 150 Ω ; rated power 0.25 watt; footprint 400 mil
1	Toggle Switch	package THT; switching circuit SPDT
1	Voltage Regulator - 5V	package TO220 [THT]; voltage 5V
1	Pushbutton	package [THT]
1	Arduino Nano v3.0	processor ATmega; variant Arduino Nano v3.0
1	Battery block 9V	voltage 9V

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