

Original Design

Requirements	Part Name
Arduino	Adunio Board
LEDs	LED
Tempature Sensor	TMP36
Humidity Sensor	HIH 4030
Pressure Sensor	HSCDANN015PAAA5
Accelrometer	SEN-09269
Dataloggers	SparkFun OpenLog
Micro SD Card	Transcend 4GB
Arduino Sheild PCB	N/A
9 Volt Battery	9 Volt Battery
Rocker Switch	Rocker Switch

Totals

Phase 2 Design

Requirements	Part Name
Arduino	Adunio Board
LEDs	LED
Tempature Sensor	TMP36
Int. Temp and Humidity ai	BME280 ADAFRUIT
Accelrometer	Adafruit MMA8451
Dataloggers	SparkFun OpenLog
Micro SD Card	Secueye. 64gb
Arduino Sheild PCB	N/A
9 Volt Battery	9 Volt Battery
Rocker Switch	Rocker Switch

Totals

Link	Quantitiy	Weight (grams)	
ArduinoLink	1	1	25
LedLink	6	6	1.2
TempSensorLink	2	2	0.4
HumiditySensorLink	1	1	1
PressureSensorLink	1	1	1
AccelrometerLink	1	1	1.5
DataloggerLink	1	1	10
MicroSDLink	1	1	4.5
AnyPCB manafactuer	1	1	20
BatteryLink	1	1	45
RockerLink	1	1	5
			114.6

Avg Power Consumption

Link	Quantitiy	Weight (grams)	
ArduinoLink	1	1	25
LedLink	6	6	1.2
TempSensorLink	1	1	0.2
TempHumidityPressureLink	1	1	1
AccelrometerLink	1	1	1
DataloggerLink	1	1	10
MicroSDLink	1	1	4.5
AnyPCB manafactuer	1	1	20
BatteryLink	1	1	45
RockerLink	1	1	5

107.9

Avg Power Consumption

Power Consumption (Amps)	Price	Availible?
0.075	\$ 27.60	Yes
0.12	\$ 0.90	Yes
0.0001	\$ 2.84	Yes
0.0002	\$ 19.00	No
0.037	\$ 37.47	Yes
0.00032	\$ 16.95	Yes
0.06	\$ 16.95	Yes
0.03	\$ 10.00	Yes
0	\$ 1.00	Yes
0	\$ 4.46	Yes
0	\$ 9.99	Yes

0.32262 \$ 147.16

1.6131 watts

Power Consumption (Amps)	Price	Availible?
0.075	\$ 17.00	Yes
0.12	\$ 0.90	Yes
0.00005	\$ 1.42	Yes
0.0002	\$ 14.95	yes
0.000016	\$ 7.95	Yes
0.06	\$ 16.95	Yes
0.03	\$ 10.00	Yes
0	\$ 1.00	Yes
0	\$ 4.46	Yes
0	\$ 9.99	Yes

0.285266 \$ 74.63

1.42633 watts