AC Power Input

172286103
J2
PRE-FUSE
FUSE
F1
W1 LINE
W2 NEUTRAL
LINE
NEUTRAL
GNDPWR

AC-DC Converter 3.3V (VCC = 3.3V)

SUPPLY
VCC +3.3V
LINE — 1 LINE VCC 3
NEUTRAL — 2 NEUTRAL GND 4
PWRSPLY1

CURRENT SENSORS

+3.3V
A1324 U5
1 Vcc Vout 2 CRNT1
GND
C2 0.1uF
3
W4 CRNT1

+3.3V
A1324 U6
1 Vcc Vout 2 CRNT2
GND
C3 0.1uF
3
W5 CRNT2

HIGH CURRENT SSR'S

S216S02F U7
Output 1
Output 2
Input+ 3
Input- 4
LINE
SSR1 R4 330
D1 LED_GREEN
PWR1

S216S02F U8
Output 1
Output 2
Input+ 3
Input- 4
LINE
SSR2 R5 330
D2 LED_GREEN
PWR2

Controlled Line Out

PWR1 1
PWR2 2
J3
172286102

Wired Sensor Jack

SJ-43514-SMT
J1
1
4
3
2
SNSR1
SNSR2
+3.3V
74AUC1G66
4 AUX_I2C_EN
2
1 SDA
3
U1
74AUC1G66
4 AUX_I2C_EN
2
1 SCL
3
U2

Reset Circuit

+3.3V
100K R1
RESET
SW2
1-1825027-1

Omni Button

+3.3V
100K R2
SW1
1
3
2
4
330 R3
B4B-PH-K
OMNI_SW
OMNI_LED

Photon

PARTICLE_PHOTON
+3.3V
PIN1 1 VIN 3V3 24 PIN24
PIN2 2 GND RST 23 PIN23 RESET
PIN3 OMNI_SW 3 TX VBAT 22 PIN22 VBAT
PIN4 OMNI_LED 4 RX GND 21 PIN21
PIN5 SNSR1 5 WKP D7 20 PIN20 SSR2
PIN6 SNSR2 6 DAC D6 19 PIN19 SSR1
PIN7 MOSI 7 A5 D5 18 PIN18
PIN8 MISO 8 A4 D4 17 PIN17 NRF_IRQ
PIN9 SCK 9 A3 D3 16 PIN16 NRF_EN
PIN10 NRF_SS 10 A2 D2 15 PIN15 AUX_I2C_EN
PIN11 CRNT2 11 A1 D1 14 PIN14 SCL
PIN12 CRNT1 12 A0 D0 13 PIN13 SDA
U3
W3 D5
+3.3V
10K R6
10K R7

NRF24L01+ 2.4GHZ Wireless Module

+3.3V
10K R8
10K R9
10K R10
10K R11
10K R12
+3.3V
C1 100nF
NRF24L01+_MOD U4
1 GND
2 3.3
NRF_EN 3 CE
NRF_SS 4 CSN
SCK 5 SCK
MOSI 6 MOSI
MISO 7 MISO
NRF_IRQ 8 IRQ

LOGO1
OPEN_HARDWARE_2