AC Power Input

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

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

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

CURRENT SENSORS

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

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

HIGH CURRENT SSR'S

S216S02F U7
Output Output Input+ Input-
LINE
SSR1
R4 330
D1 GREEN PWR1

S216S02F U8
Output Output Input+ Input-
LINE
SSR2
R5 330
D2 GREEN PWR2

Controlled Line Out

PWR1 1
PWR2 2
J3
172286102

Wired Sensor Jack

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

Reset Circuit

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

Omni Button

+3.3V
R2 100K
SW1
B4B-PH-K
R3 330
OMNI_SW
OMNI_LED

Photon

PARTICLE_PHOTON
U3
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
+3.3V
W3
+3.3V
R6 10K
R7 10K

NRF24L01+ 2.4GHZ Wireless Module

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

LOGO1
OPEN_HARDWARE_2

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