

Power board

Live
90V~260V
Neutral

AC to DC
LNK623GD

12V

Red LEDs on bottom

To RF board

RF board

4 group RGB LEDs on TOP

12V

Siren
Buzzer

I2C-bus LED controller
PCA9685 12-bit
16-channel

Power IC
3.3V
DIO6912

Dialog
DA14681

small Buzzer
(Reserved)

To Power board

R<33K, the -IN<2.69V
R=2K, the -IN=0.69V

Water
sense
Cable

Phone
Jack

Tact Switch

Comparator 1 OUT
(SET 2.69V)

Comparator 2 OUT
(SET 0.39V)

MF13415S3959

SPI Flash
W25Q16DW

I2C

Low Enable

1.8V

1.8VP

SPI

SWDIO/P0_6
SWCLK/P2_4
P1_3, P2_3 PLT UART
RST

RFIOP ,RFIOM

XTAL16MP
XTAL16MM
XTAL32KP
XTAL32KM

Debug

1 V33	2 PLT_TX
3 SWDIO	4 PLT_RX
5 GND	6 VDD
7 SWCLK	8 RST
9 V18	10 VDD

Ant.

16MHz
32.768KHz