ubirch

Hallo Papa v1.0
(wiring sheet)

- ▬ GND
- ▬ VCC

Other colors just for distinction.

WS2812B

MPR121
adafruit! MPR121 Capacitive Touch Sensors
11 10 9 8 7 6 5 4 3 2 1 0 GND
SCL ADDR 3Vo
IRQ SDA GND VIN

1K63

ubirch #1 (front)

SCL SDA VCC GND
I2C1

SCL SDA D.I2C GND
I2C2

RX TX VCC GND
UART

A0 A1 VCC GND
ADC

D0 D1 VCC GND
DIGITAL

RESET
D.I2C / MOSI
SCK
MISO
GND

MIC (preamp)
Gain float->60dB
G=Gnd -> 50dB
G=Udd -> 40dB
Output 2Vpp max
DC Offset 1.25V

D-AMP
ST2012 AUDIO Amp
RIGHT
LEFT

VS1058 (SD)
VS1053 BoB v4 (C2679)
v.4
ROUT
LOUT
AGND
MIC+
MIC-
AGND
3V3
DREQ
VCC
3V3
GND
MISO
MOSI
SCLK
RST
CS
TX
RX
SD
CD
SDCS
XDCS
5V SAFE
LINE2

ubirch #1 (back)
AMPHENOL SIMLOCK®
OPEN OPEN
ubirch

If powered externally
or just by battery,
connect GND to flash!

RST TX RX VCC GND
PROGRAMMER