MOTOCOCO

Version 0.1 double sided PCB, PCBway, SMD 1206
Dimension+, Taipei, October 2017, @kimitobo

parts

Vcc
R6
Power LED
C3 100nF
GND
GND
GND

PB2
Gnd
Vcc
Servo 2 (PWM)

Gnd
Vcc
Servo 1 (PWM)

PB1

Reset (pull to GND)
GND

PB5
Vcc
R3 22K

ATiny85

R9 470
R8 470
Audio out

Bootloader Indicator LED
C2 100nF
GND
GND

PB0

SD-Prog in [T]RS
C1 100nF
GND

R5 22K
R4 22K

PB3

R7 470
3 x NeoP
Dout

PB4

R1 4K7
Vcc

Analog sensor input
(Compatible 8Btmixtape 10K Pot code)
R2 22K
GND

Button
GND

T
R
S
In

Left-ear
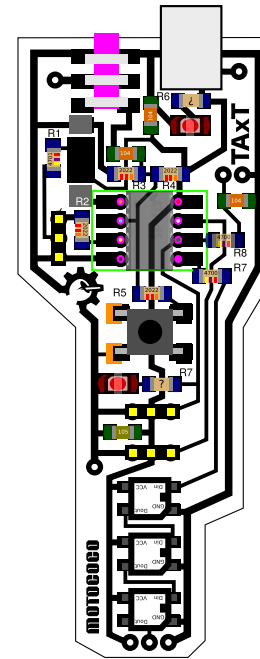
Frontside
R1: 4k7 Ω (Voltage divider, analog in)
R2: 22k Ω (Voltage divider, analog in)
R3-4: 2 x 22k Ω (Voltage divider SD-Prog)
R5: 1 x 22k Ω (Buttons 1 Left)
R6: 1x 1K Ω (Power led resistor, if red)
R7: 470 Ω (NEO-Pixel data stabilizer)
R8: 470 Ω (Output Filter)
R9: 470 Ω (Prog. LED resistor, if green)
C1: 100nF (SD-Prog de-coupling)
C2: 100nF (Output Filter)
C3: 100nF (Voltage stabilization)
1 x ATTINY85
3 x NEO Pixel (SK6812)
2 x LED (Power and Prog-Status)
1 x Push-Button
1 x Reset push-button (mini)
2 x 3pin servo socket (male)
1 x 3pin analog sensor socket (female)
1 x Lipo-socket
1 x Audio connector, 3,5mm, slim barrell

Lab by DIMENSION PLUS
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