

Battery_Cell 0.1uF C30

23pF

C34 0.15nF

GND GND

C31

LED1 2 1 100R D1

Auxillary LEDs

SW

BAT/OUT 16 BAT/OUT 17

ISET1 12 13 +BAT

PG 14 20 GND CE PG

BAT/OUT

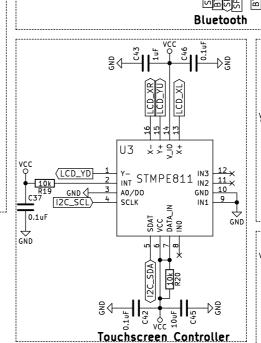
Battery Charge Circuit

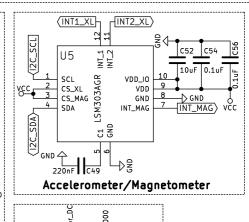
USB

STAT2

3 VSS VSS VSS

18 VSS





02 2N7

Vibration Motor

, -[4k7]---|} -[4k7]----|}

MotorPWM

VSS 23

ANT1 21

VDD_PA

22

20

19 RESET VSS 18 17 VSS 17

GND

DEC1

DEC2

nRF8001

DEC2

X 4

X 5

X 6

ACTIVE

TXD

VSS

2.4GHz (2450AT18A100E)

C53 C55

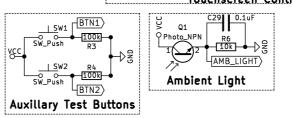
1.2pF 1.5pF

GND GND

3.9nH

22nF

C50



GND GND GND

VCC = 3.3V (LCD Requires 3.3V) Ambient Light for screen backlight intensity Bluetooth LE for phone connection USB 2.0 over USB C connector Vibration Motor Combined Accelerometer and Magnemometer

Test buttons and LEDs for debugging



<USB_VBUS

C14 C18

22 E

Jesse Laning Sheet: / File: SmartWatch.sch Title: Smart Watch

Size: A3 Date: 2017-12-06 KiCad E.D.A. kicad 4.0.7 ld: 1/1