+3.3V

VBUS

J2
Conn_01x09

R9 22R
R8 22R

DETECT

I2C1_SDA
I2C1_SCL/SPI1_TX
I2C1_SDA/SPI1_SCK

GND

U1

18	5V
17	GND
16	3V3
15	GPIO29
14	GPIO28
13	GPIO27
12	GPIO26
11	GPIO15
10	GPIO14

GPIO0 | 1 | UART0_TX
GPIO1 | 2 | UART0_RX
GPIO2 | 3 | BLINK
GPIO3 | 4 | QTR_CLK
GPIO4 | 5 | SPI0_TX/I2C1_SCL
GPIO5 | 6 | SPI0_RX/I2C0_SDA/UART1_TX
GPIO6 | 7 | SPI0_CSn/I2C0_SCL/UART1_RX
GPIO7 | 8 | SPI0_SCK/I2C0_SDA
GPIO8 | 9 | SPI0_SCK/I2C1_SCL
SPI0_TX/I2C1_SCL
SPI1_RX/I2C0_SDA/UART1_TX

GPIO13 23
GPIO12 22
GPIO11 21
GPIO10 20
GPIO9 19

AMP_CS
KEYA
LTX_RX
nLTC_TX
LTC_TX

J1
Conn_01x09

R5 2.10K-1%
C5 100nF
LTC_TX
IN_OUT_L

R6 2.00K-1%
C6 100nF
nLTC_TX
IN_OUT_R

Note: Differential Drive will produce ~80mV pk-pk signal.

Force nLTC_TX low for ~1V pk-pk signal.

+3.3V

C1 100nF
IN_OUT_L
IN

J3
SJ-43514-SMT-TR

IN_OUT_R
DETECT

C2 100nF

GND

R1 10K
R3 10K
VREF
C3 100nF

R2 10K
R4 10K
GND

AMP_CS

Note: Bottom of dividers connected to nCS, this needs to be driven low to enable RX amplifier.
Float/Pull-up for PowerSave

U2
MCP6273T-E/CH

LTX_RX | 1 | VOUT
| 2 | VSS
IN | 3 | VIN+

VDD | 6 | +3.3V
*CS | 5 | AMP_CS
VIN- | 4 | VREF

C4 100nF

GND
GND

R7 330R
BLINK

LED1
LTST-S220GKT
GND

SW1
PTS636 SM50J SMTR LFS
KEYA

SW2
SW_Push_Shielded

GND

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