





GND GND

VDD VDD

SCL SDA

SDA SCL

ISOLATED PORTS



ISOLATION

2 Layers
0.6MM
Copper 1oz
Impedance
Single 50Ω
Single 60Ω
Diff 90Ω

USB TO
I2C
AND
SMB
ISOLATED

SCH-Ver-1 & PCB-Ver-1



IO7 IO6 IO5 IO4 GND IO3 IO2 SCL

5V 5V 3.3V 3.3V GND GND SUS# SUS

U1U=CP2112-F03-GM
U1I=ADUM1252AWA+
U1L=SGM2019-ADJYN5G/TR
Q1P, Q2P=PMPB14XPZ
ZD1P, ZD2P=MM3Z12VST1G
D1U=SRV05-4
F1P, F2P = 250mA, 100mA
R1U, R2U, R3L = 10KΩ R2L = 20KΩ R0L = 1.69KΩ
R1I, R2I, R3I, R4I = 2.2KΩ R1P, R2P = 100KΩ
R1C, R2C = 5.1KΩ R4L = 2.49KΩ R1L = 33KΩ
C1I, C3U, C4I, C4U, C1P, C1U, C2L, C2U, C3P = 100nF

C3P = 1uF
C5U = 4.7uF
C3L, C1L = 10uF
C2I, C3I = 1nF

Register, 1%, 0603
Capacitor, 10%, 0603

NON-ISOLATED PORTS



SDA
RST#

Alcatraz