

BT1 POWER PROVIDED FROM 2400mAh ALKALINE BATTERIES

POWER OR'ING

D1

D2

SW3

C9 42uF

PWR\_SWITCH

4.7uH L4

U3

VIN

SW

VOUT

EN

UFB

PG

MCP1642B-ADJ

R7 97k

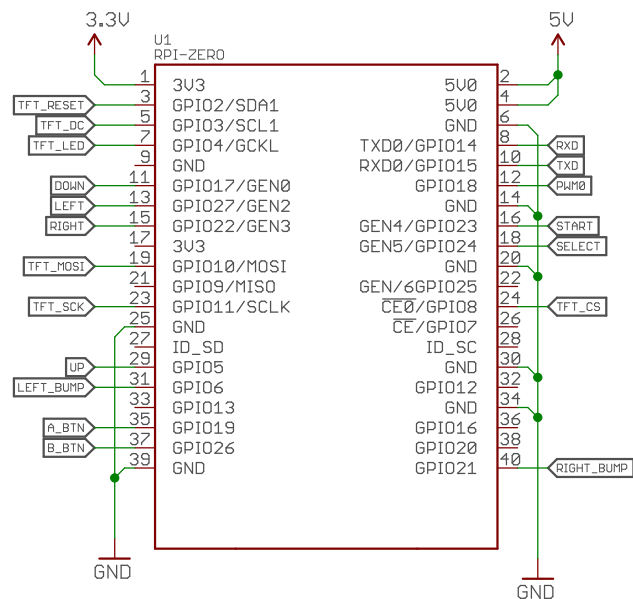
R9 309k

C10 47uF

C16 100n

5V

Place C10 as close as possible to Vout on U3.

[illegible]

The diagram illustrates a 16-bit parallel adder circuit. It consists of two 8-bit adders, each implemented using a 74181 8-bit ALU and a 74148 3-to-8 priority encoder. The two adders are connected in parallel to a common 16-bit bus. The first adder (left) takes two 8-bit inputs, A and B, and produces an 8-bit sum. The second adder (right) takes two 8-bit inputs, C and D, and produces an 8-bit sum. The two 8-bit sums are combined to form the final 16-bit result. The circuit is powered by a 5V supply and a ground connection.

**r.w.**

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