select_code2421_BCD

select_up_down

clk
enable
reset

code2421_downCounter:DNCNT
clk
enable
reset
count[3..0]

code2421_upCounter:UPCNT
count[3..0]
upcount[3..0]

mux2to1_4bit:MUX1
data0[3..0]
data1[3..0]
select
muxout[3..0]

Weighted2421ToBCDConverter:CONV
weighted2421[3..0]
bcd[3..0]

mux2to1_4bit:MUX2
data0[3..0]
data1[3..0]
select
muxout[3..0]

count_out[3..0]