2nd Layer

RandomNumberGenerator

CLK(20MHz)

CLKDiv131k
> CLK   CLKO

CLKDiv2
> CLK   CLKO

ActivateButton

Counter_00-99
D0[3:0]
> CLK
D1[3:0]

SSD_2Digit
D0[3:0]   Segment[a:g]
D1[3:0]   Common[1:0]
> ScanCLK

7   Segment[a:g]

2   Common[1:0]

4

4

4   4

LED_Driver
D0[3:0]
LED[3:0]
D1[3:0]

4   4

4   LED[3:0]