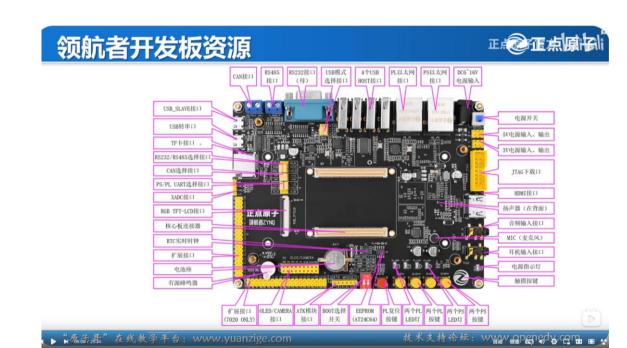
## function

1. when user press pl\_key[0] once, beep start and led[0] turn on; and when user press pl key[0] again, it stop beep and led[0] turn off

2. key pl\_key[1] is the volume control, the beep voice will go down and led[1] light will go weaker when press key pl\_key[1]; it have 6 levels of beep volume (0,20%, 40%, 60%, 80%, 100%)

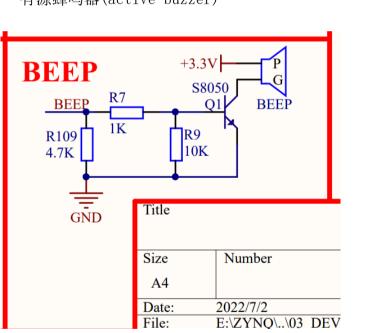


D:\FPGA study\projects\0001 project beep

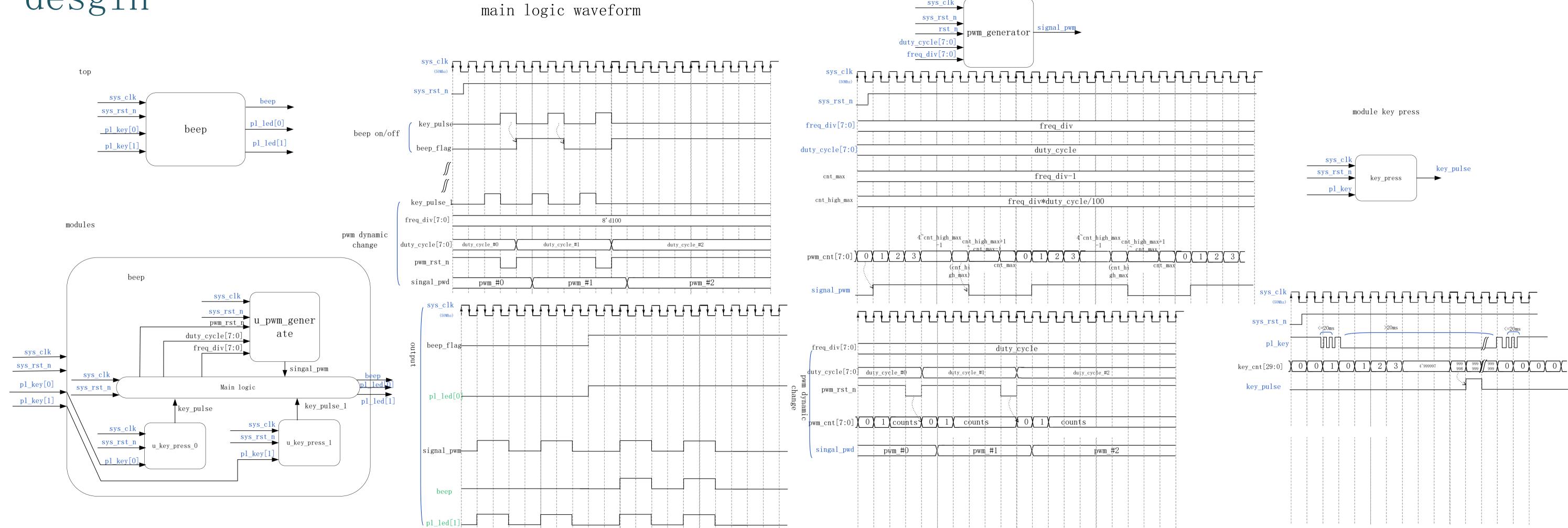


nput N16 PL复位复位,低电平有效 output H15 (底板) PL\_LED0 output L15 (底板) PL\_LED1

有源蜂鸣器(active buzzer)

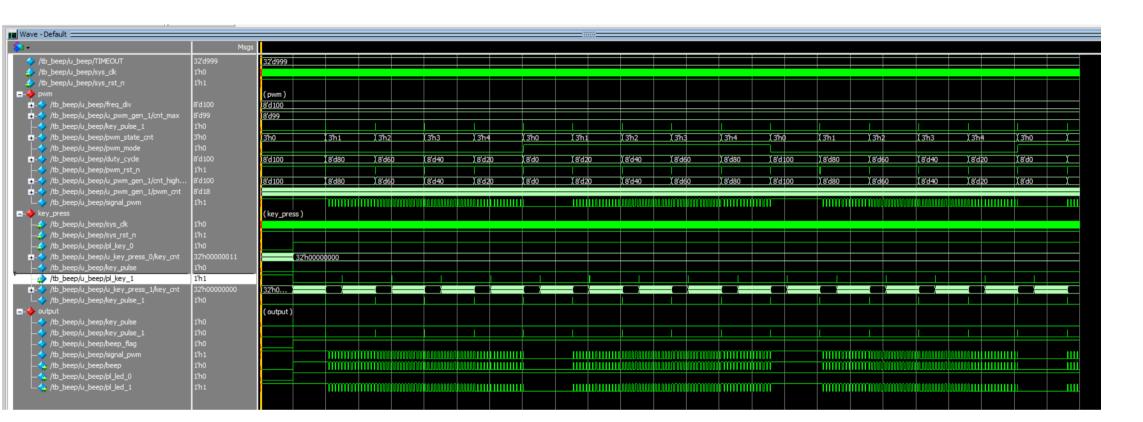


BEEP was controlled by beep signal



module pwm generator:

## simulation



details of pwm change

