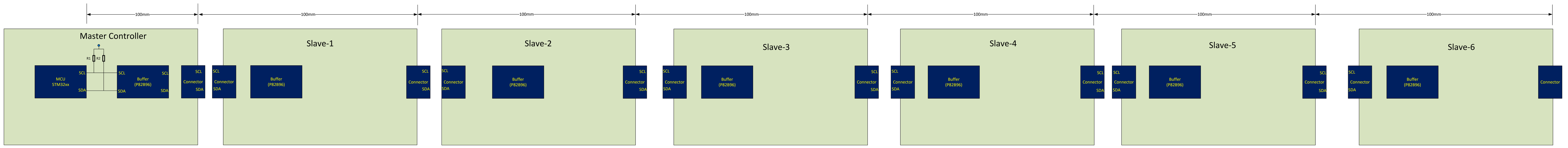
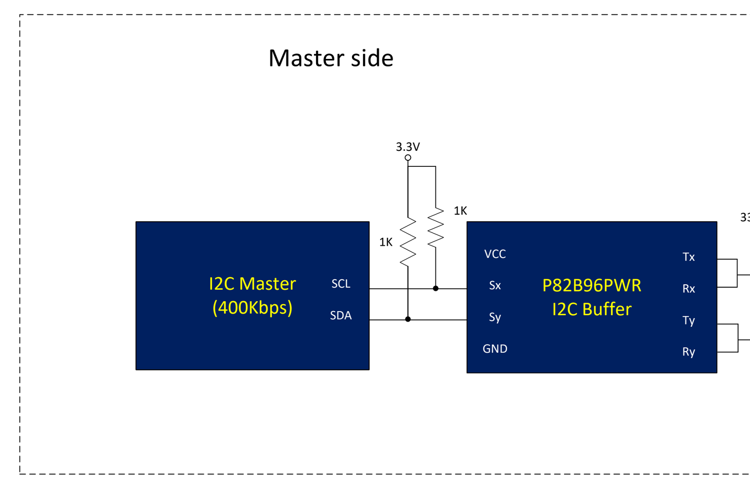
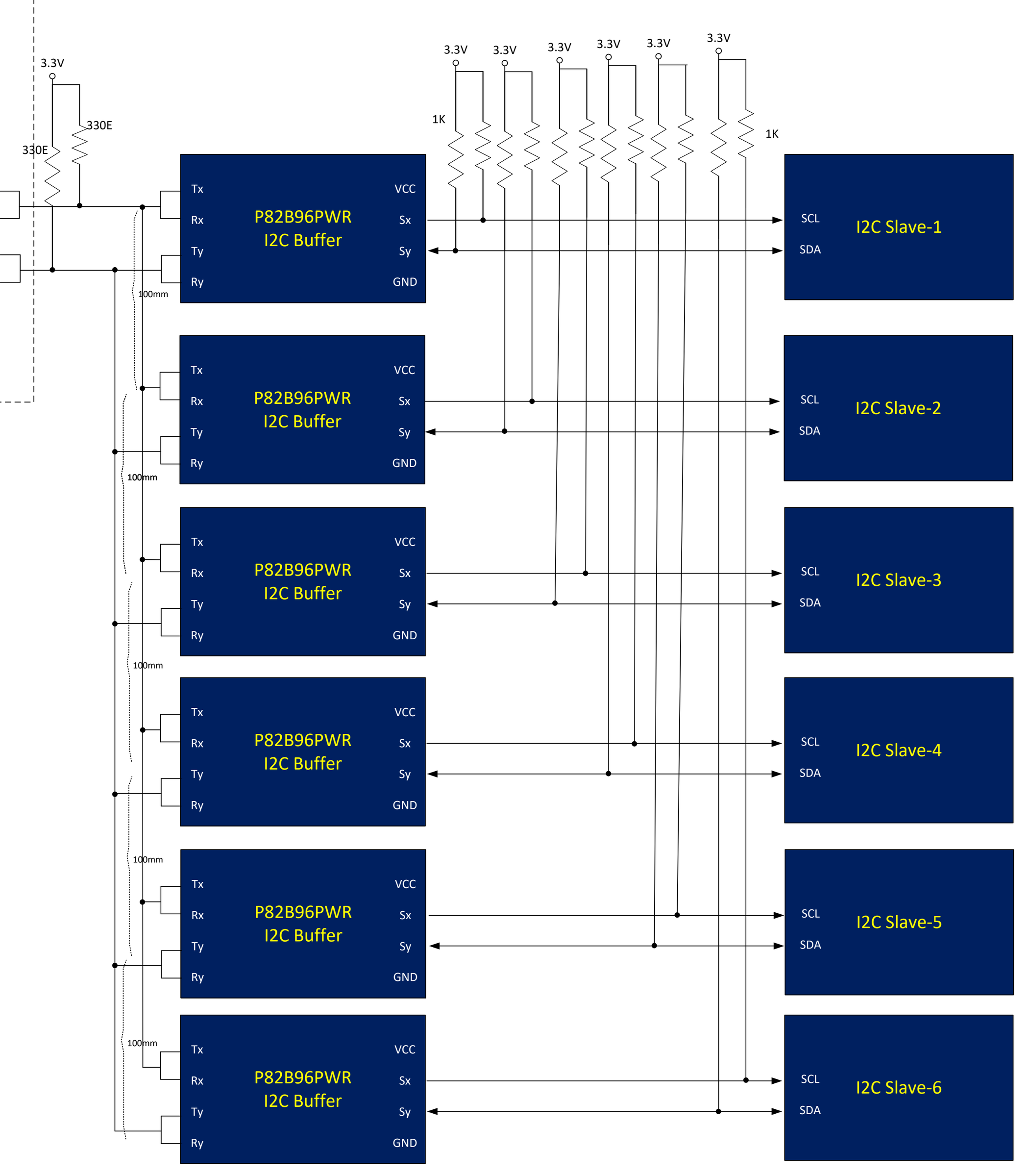
I2C Buffer Application scenario



I2C Communication Configuration-1





Master will communicate with 6 slaves through I2C buffer(P82B96PWR), each slave is at a distance of 100mm from the master, last slave is at a distance of 600mm. Master is in one PCBA and all slaves are interconnected through board to board connector .

Please suggest which configuration of BUFFER is works better?

I2C Communication Configuration-2