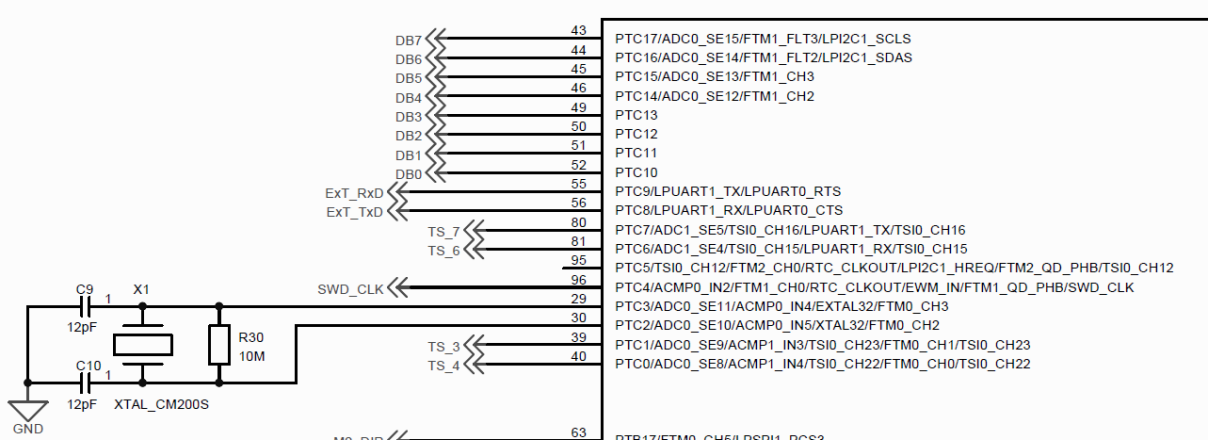
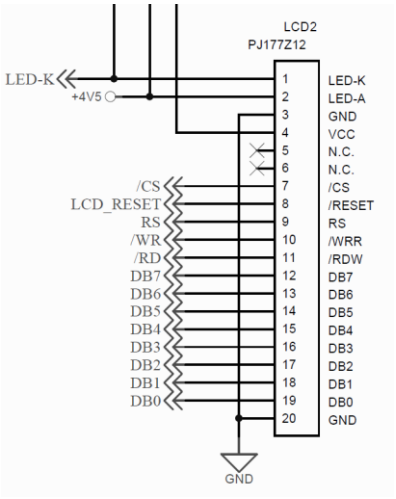


MKE15Z256VLL7



LCD 1.77”

Ports PTC10 through Ports PTC17 are connected on LCD 1.77 ", ports TCT0 through PTC9 are connected as above image.
TS_x are Touch-Sensing keyboards.

I am configuring the ports as below.

```
//D0 LCD = PTC10
#define D0_GPIO GPIOC
#define D0_PORT PORTC
#define D0_PIN 10U
// D0 LCD
gpio_pin_config_t D0_conf = {
    .pinDirection = kGPIO_DigitalOutput,
    .outputLogic = 0U
};
GPIO_PinInit (D0_GPIO, D0_PIN, &D0_conf);
PORT_SetPinMux(D0_PORT, D0_PIN, kPORT_MuxAsGpio);
```

Same definitions for D1 ~ D7

I ask:

1) For me to send data (8 bits) in D0 ~ D7, can I do it as follows?

```
void TFT_CMD (int8_t command)
{
	uint32_t tmp;
	tmp = GPIOC->PDOR & 0xFFFFFF00;
	GPIOC->PDOR = tmp | command;
}
```

2) This way above will not harm / disrupt / mess up the ports D0 ~ D9?

3) **Do you have a better option for me to do?**

4) If I do the way below, I will waste a lot of time in the routine, do you agree?

```
void TFT_CMD (int8_t command)
{
	if (command & 0x01 ) {
		GPIO_PortSet (D0_GPIO, 1U << D0_PIN);
	} else {
		GPIO_PortClear (D0_GPIO, 1U << D0_PIN);
	}
	if (command & 0x02 ) {
		GPIO_PortSet (D1_GPIO, 1U << D1_PIN);
	} else {
		GPIO_PortClear (D1_GPIO, 1U << D1_PIN);
	}
	…D2 ~ D6
	if (command & 0x80 ) {
		GPIO_PortSet (D7_GPIO, 1U << D7_PIN);
	} else {
		GPIO_PortClear (D7_GPIO, 1U << D7_PIN);
	}
}
```