

## Logbook

Date	Symptom	Problem	Solution
2014-04-11	No values are shown on the 7 segment display.	Forgot to set MR pin to HIGH.	
2014-04-11	The value for the last digit after the decimal dot is not correct.	pow(10, i) is not accurate and returning erroneous values. Ex: pow(10, 3) = 1099.	Use pre-calculated values from an array, we only need powers of 10 with a maximum power of 5 anyhow.
2014-04-24	No value is written to the control register of the TC72 temperature chip.	Data was shifted in starting with the LSB instead of MSB when sending data through the SPI bus.	

## Memory Mappings

Start Address	End Address	Size	Function

## IO Mappings

Port	Pin	Direction	Define	Function	Module
PORTB	PB0	OUTPUT		SS	spi
	PB1	OUTPUT		SCK	spi
	PB2	OUTPUT		MOSI	spi
	PB3	OUTPUT		MR	display
	PB7	OUTPUT		PWM	rc_servo
PORTK	PK3	OUTPUT		STCP	display
	PK5	OUTPUT		CE	temperature
PORTL	PL0	OUTPUT		Display D	display
	PL1	OUTPUT		Display C	display
	PL2	OUTPUT		Display B	display
	PL3	OUTPUT		Display A	display

# MCU Functions

Timer		Function	Module
TIMER0	TOIE0	Refresh display	display
TIMER1	COM1C1	PWM pulse	rc_servo