Reverse Engineering, project #3 – Annex 1

Board 1

- L7 ... L0 (8 LEDs)
- RS232 → UTX, URX
- uC PIC32MX745F512H
- INT1
- +V
- EEPROM (1)
- SPI
- I2C
- Temp Sensor (2)
- Temp Sensor (3)
- Dip Switch (4 3 2 1, 0/1)
- OC2, OC1
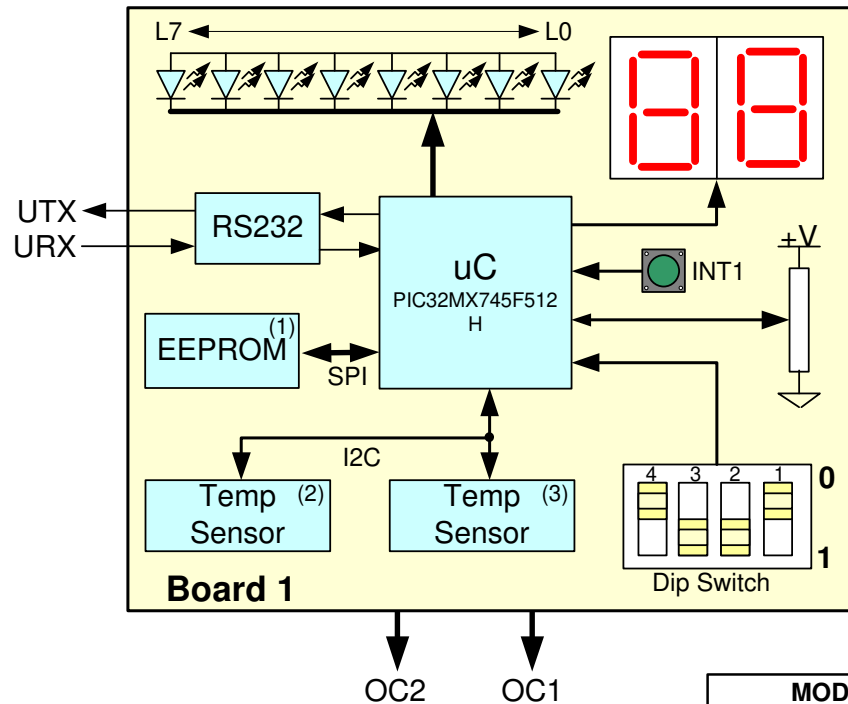
(1) - MICROCHIP 25LC040A
(2) - TC74A0-3.3V
(3) - TC74A5-3.3V

FULL SYSTEM SETUP

Photo labels: Temperature Sensor, Temperature Sensor, SPI Signals, 8 LEDS, INT1, EEPROM, I2C Signals, RS232C, OC2, OC1, GND, GND, Potentiometer, Reset, 4bit DipSwitches
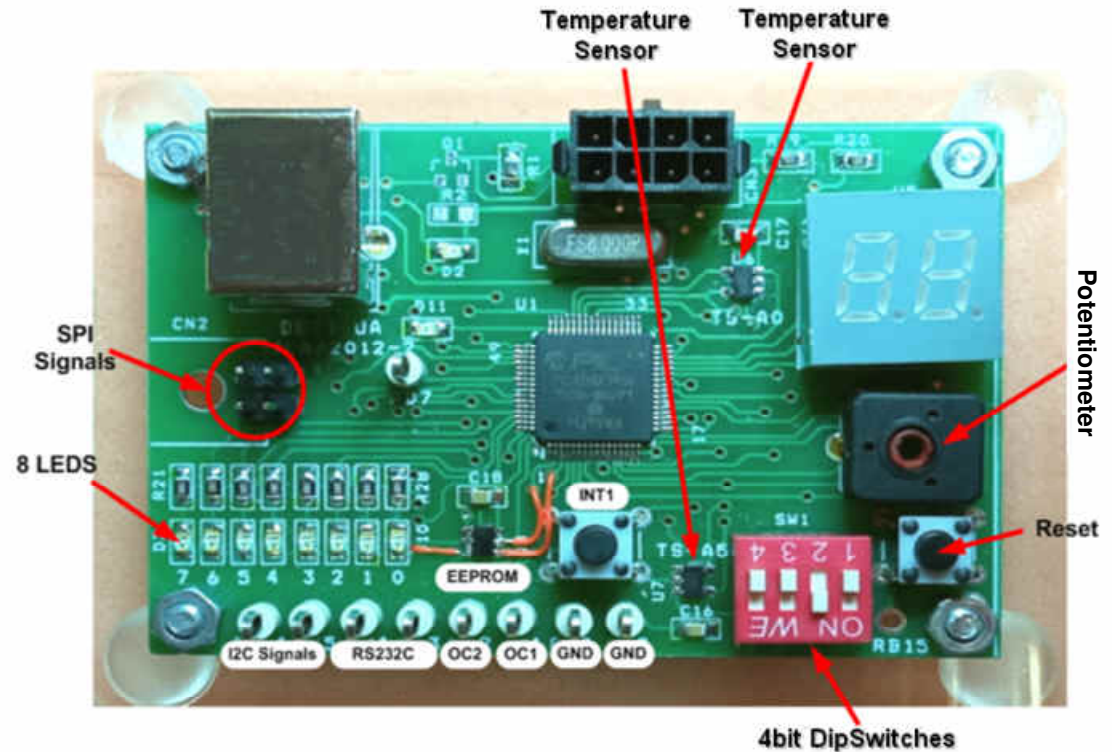
MODE		Description	Notes
DIP4	DIP3	Mode function	
0	0	Turn off system / Setpoint mode	OCs are set to 0%
0	1	Adjust right temperature to "Setpoint1"	Uses one of the OCs
1	0	Adjust left temperature to "Setpoint2"	Uses the other OC
1	1	Adjust temperature to "AverageSetpoint"	Uses both OCs

Adjust		Description	Notes
DIP2	DIP1	Set Point selection	
0	0	Normal mode	Depends on Mode Switches
0	1	Set "Setpoint1" (Use potenciometer)	Only available if MODE is off
1	0	Set "Setpoint2" (Use potenciometer)	Only available if MODE is off
1	1	Set "AverageSetpoint" (Use potenciometer)	Only available if MODE is off

NOTE: In temperature setup mode, after selecting the desired temperature value, the INT1 switch must be pressed to store the new setpoint.