Engenharia Reversa, projeto #3 – Anexo 1

Board 1 diagram showing: L7 ← ... → L0 (8 LEDs), two 7-segment displays, RS232 (UTX, URX), uC PIC32MX745F512H, INT1, +V, EEPROM (1) with SPI, Temp Sensor (2) and Temp Sensor (3) connected via I2C, Dip Switch (4 3 2 1, 0/1), outputs OC2 and OC1.
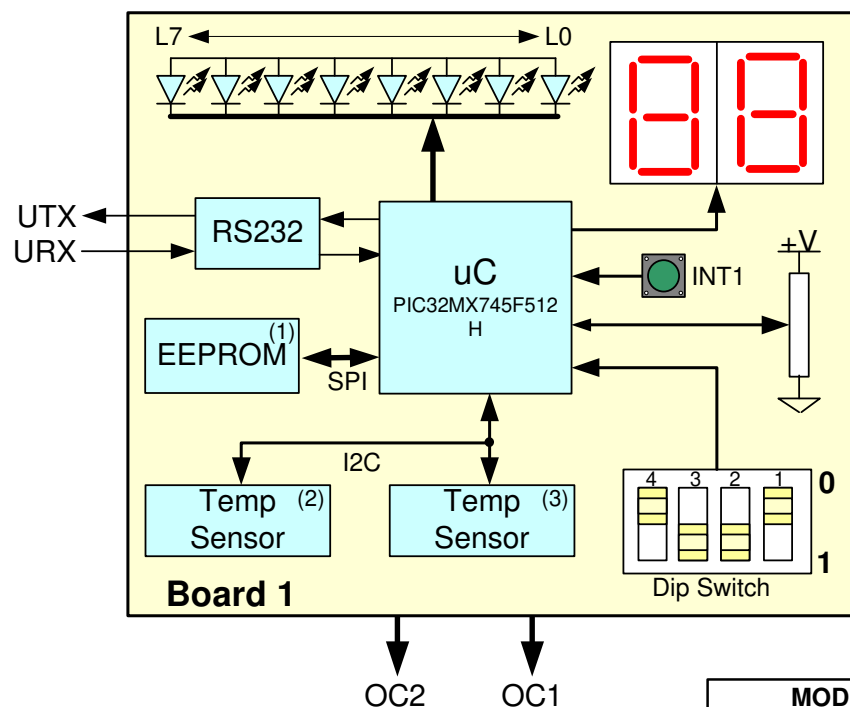
(1) - MICROCHIP 25LC040A
(2) - TC74A0-3.3V
(3) - TC74A5-3.3V

FULL SYSTEM SETUP

Reverse Engineering Final Project

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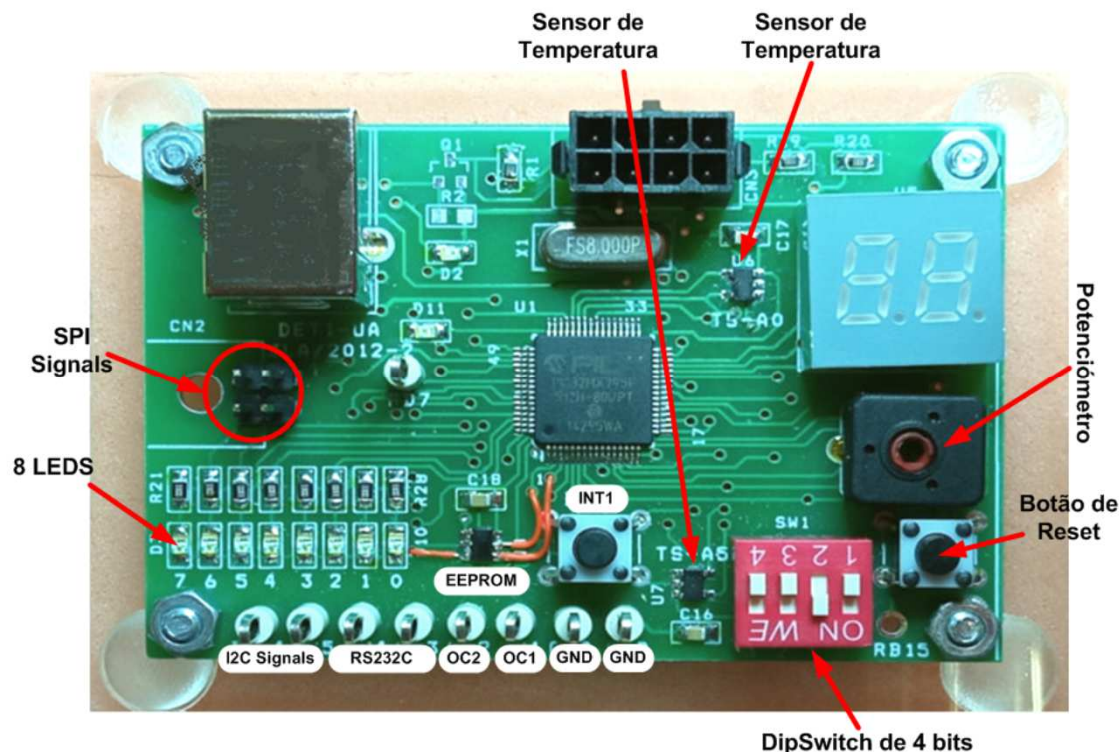
MODE		Description	Notes
DIP4	DIP3	Mode function	
0	0	Turn off system / Setpoint mode	OCs are set to 0%
0	1	Adjust right temperature to "Setpoint1"	Uses one of the OCs
1	0	Adjust left temperature to "Setpoint2"	Uses the other OC
1	1	Adjust temperature to "AverageSetpoint"	Uses both OCs

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

NOTA: No modo de *setup* de temperaturas, após selecionar o valor da temperatura pretendida, deverá pressionar-se o interruptor INT1 para armazenar esse *set point*.