Anexo 1

Board 1 — FULL SYSTEM SETUP

L7 ← ... → L0

UTX, URX — RS232 — uC (PIC32MX745F512H) — INT1 — +V

EEPROM (1) — SPI

I2C — Temp Sensor (2) — Temp Sensor (3)

Dip Switch — 0 / 1 — 4 3 2 1

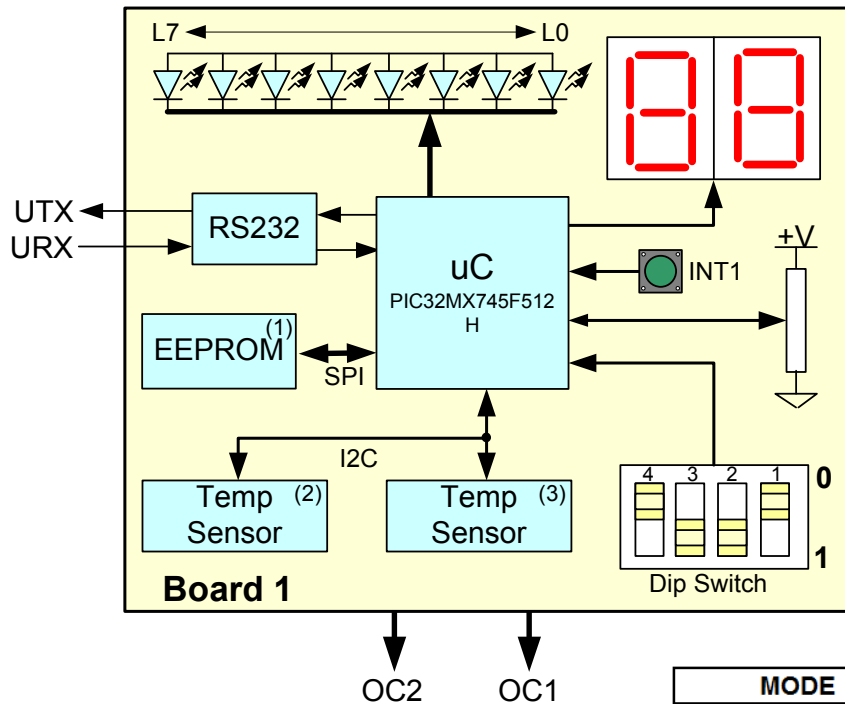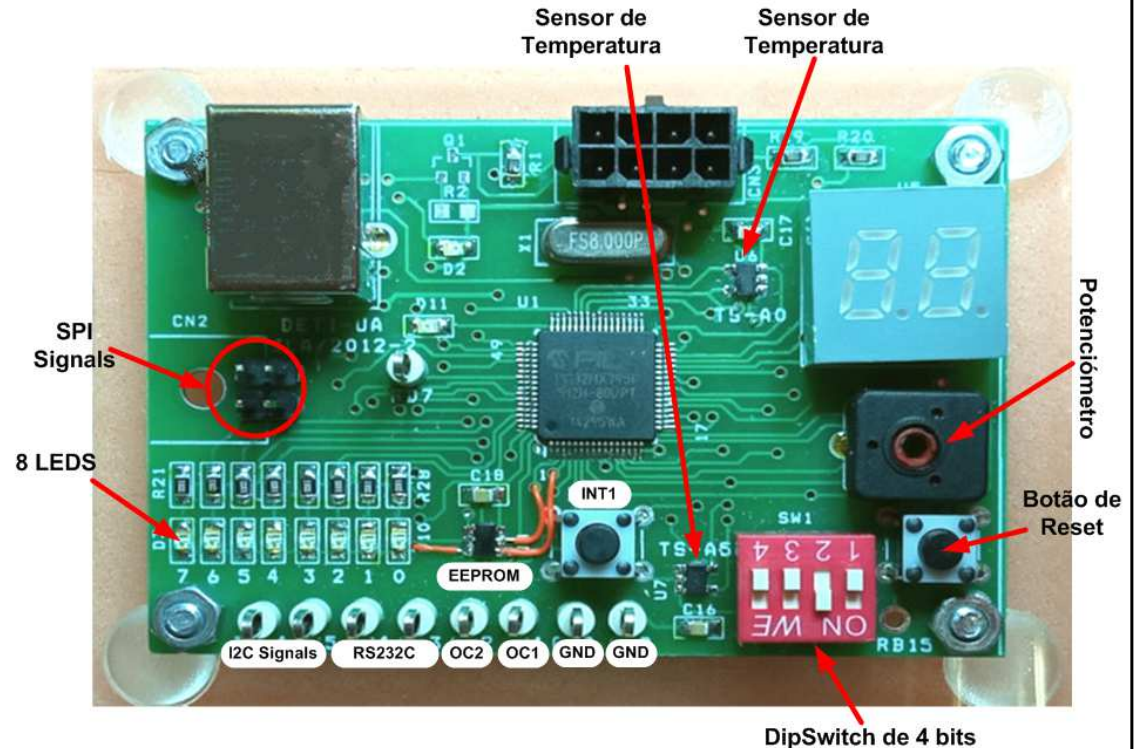OC2 OC1

(1) - MICROCHIP 25LC040A
(2) - TC74A0-3.3V
(3) - TC74A5-3.3V

FULL SYSTEM SETUP

Reverse Engineering Final Project

Sensor de Temperatura · Sensor de Temperatura · Potenciómetro · Botão de Reset · DipSwitch de 4 bits · SPI Signals · 8 LEDS · I2C Signals · RS232C · OC2 · OC1 · GND · GND

MODE		Description	Notes
DIP4	DIP3	Mode function	
0	0	Turn off system / Set Point mode	OCs are set to 0%
1	0	Ajust left temperature to SET Point 1	Uses one of the OCs
0	1	Ajust right temperature to SET Point 2	Uses the other OC
1	1	Ajust both sides to average temperature	Uses both OCs

Adjust		Description	Notes
DIP2	DIP1	Set Point selection	
0	0	Normal mode	Depends on Mode Switches
0	1	Set Temperature 1 (Use potenciometer)	Only available if MODE is off
1	0	Set Temperature 2 (Use potenciometer)	Only available if MODE is off
1	1	Set Average Temperature (Use potenciometer)	Only available if MODE is off

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