High level design

Module description

Temperature sensor

This module is responsible for reading the ADC value and converting into to a temperature value.

The module depends on the following equation to calculate the current temperature being read by the ADC:

Current ADC value * Sensor Max Rated Temp * ADC Reference Voltage

ADC Max value * Sensor Max Rated Voltage

LM32 driver documentation

```
/**
  * @brief Calculate the temperature from the ADC digital value.
  */
uint8 LM35 getTemperature(void);
```

Low level Design

LM32 module

uint8 LM35 getTemperature(void);

