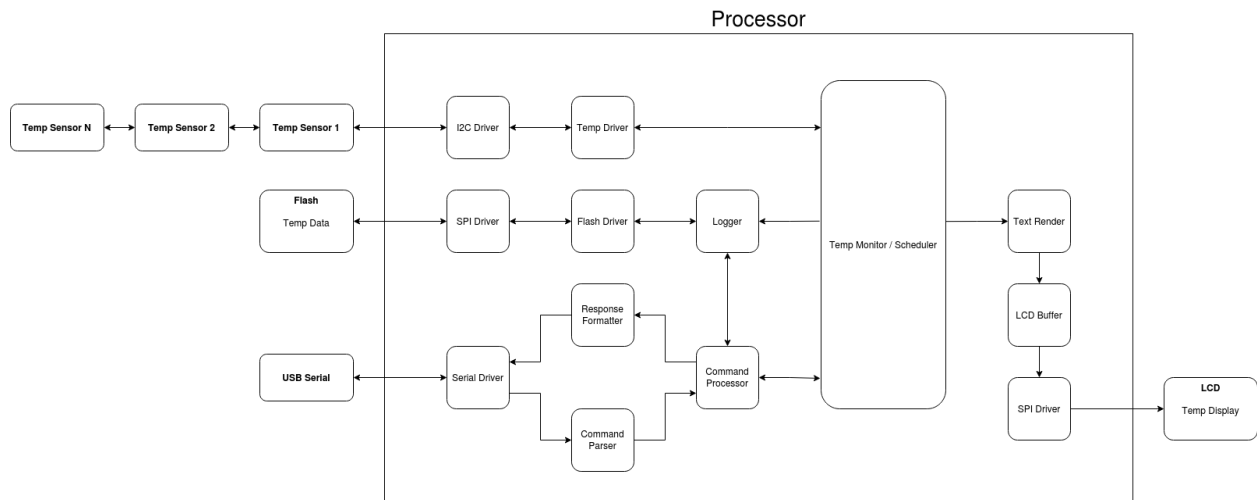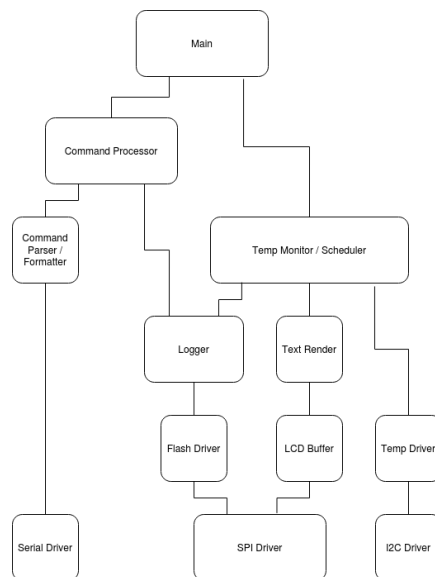# Extensible Refrigerator Temperature Monitor & Logger (Rev 0.1)

I have an old refrigerator which doesn't regulate temperature very well so I would like an easily extensible temperature monitor and logger. The temperature sensors will be daisy-chainable via I2C which can be placed throughout the refrigerator. The temperatures will be displayed on an LCD and logged to flash which can then be retrieved via a USB interface.

Hardware / Software Block Diagram

Hierarchy of Control Diagram

Software Layer Diagram

| Command Processor | Temp Monitor / Scheduler |

| Command Parser / Formatter | Logger | Text Render | Temp Driver |

| Serial Driver | Flash Driver | LCD Buffer | I2C Driver |

| SPI Driver |