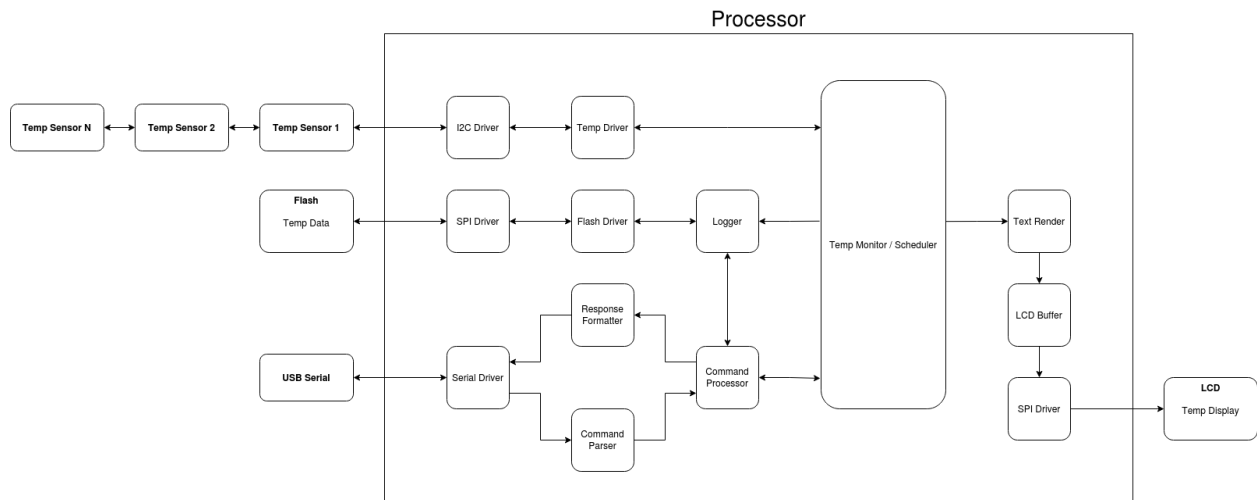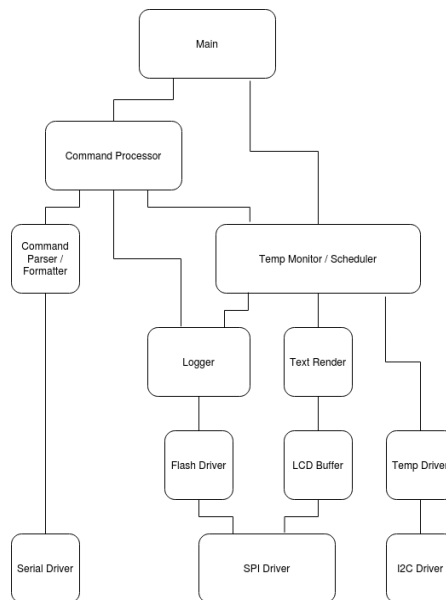# Extensible Refrigerator Temperature Monitor & Logger (Rev 0.1)

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