80MM Head Support

Please see github: GlobalScaleRT1024-80MM branch.

Every item in bold text has been implemented and committed to the 80mm branch.

* **Add head detection IO support to sensors.c**
* Make histor1Line buffer to support 72mm and 80mm head sizes
* **Change clearHistory( void ) to support 80MM print head**
* **Resize print head image buffer for 80 and 72mm support**
* **Change getImageBufferSize() to support 80mm**
* **Modify getPrintHeadType() to support head detection ( new rev PCB )**
  + **Sensors.c support new ADC channel for head detection**
* **getHeadResistanceId() to support 80mm head**
* **Change loadHistory() to support transfer of 80mm head data**
* **Change loadPrintLine() to support transfer of 80mm head data**
* **Change loadZeroPrintLine() to support transfer of 80mm head data**

To Do:

**Backend**

80mm is supported for prepack printing. There should be very little if anything to change in backend at support global 80mm.

**Firmware**

* Unit test above changes to firmware 1 days
* Print head strobe signal validation. ½ days
* Label rendering ( DLM / Haron’s ) DB. 4 days
* Hung to provide MOC timing values for 80mm head 2 days
* Change test label blitting functions to support 80mm ½ days
* createCheckerBoardLabel()
* createVerticalLinesLabel()
* createHorizontalLinesLabel()