

Katana Integration with ZEN

Friday, November 26, 2021 2:27 PM

1. Application Development

- i. Set up serial communication between ZEN Software and Katana microtome
- ii. AIM - Serial Block Face Imaging

2. Scope

- a. Burn in the binary code provided by the Connectomx team into the Arduino Due board(gain send by the Connectomx Team) - used the attached bat file. Note setting the baud rate to 1200 is needed initially (as seen in the bat file) in order to erase the flash before uploading the binary code. Also remember to correctly set the COM port where the Arduino is connected and the name of the binary file in the bat file.



KatanaArdu
inoV1.5_F...



arduino_du
e

1. Zen Blue macro to write command to the serial port and read back the response from the Katana (Arduino)

2. Timeline



arduino_due

```
@echo off
rem
rem Download firmware to Due
rem
rem NB this requires bossac utility (available in Arduino IDE)
rem
rem change port as required

set zzport=%1
if /%zzport%/ == // set zzport=COM6

set
bossa_path=C:\Users\ZSPANIYA\AppData\Local\Arduino15\packages\arduino\tools\bossac\1
.6.1-arduino\

mode %zzport%:1200
rem sleep 1
pause
%bossa_path%bossac.exe --port=%zzport% -U false -e -w -v -b
C:\Users\ZSPANIYA\Desktop\Katana_Temp\KatanaArduinoV1.5_FB.ino.arduino_due_x.bin -R

set zzport=COM6
```