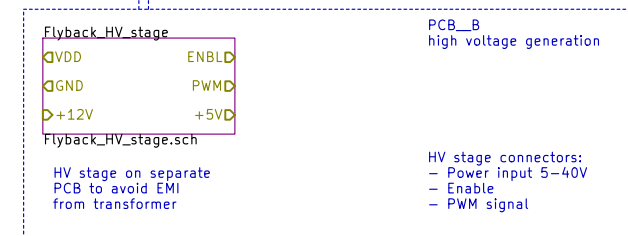
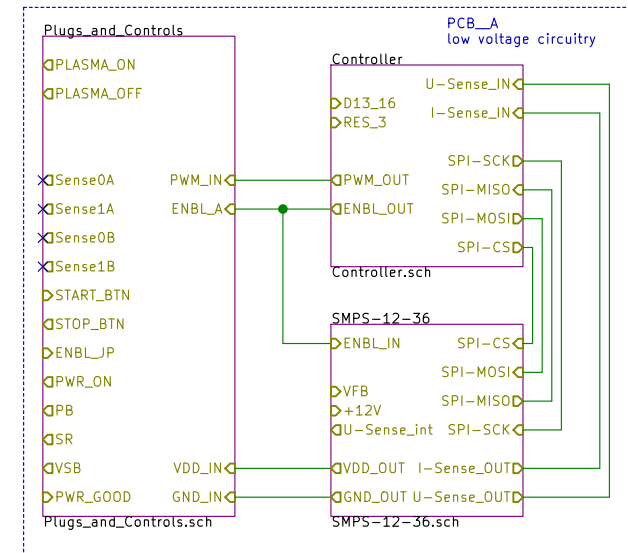
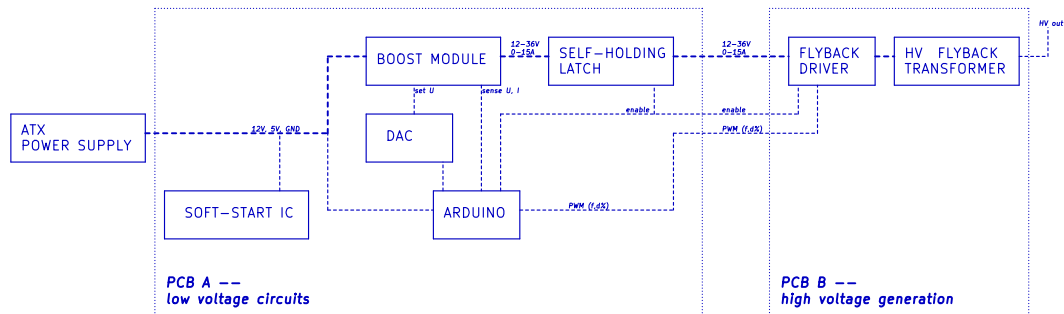


# BLOCK DIAGRAM



## NOTES

Boost regulator has internal Vref=1.2V. Therefore set DAC VoutB=1.2V.  
DAC VoutA maps directly N=0...4095 to Uset=0...36V.  
DAC CS via Arduino pin 8.

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Sheet: /  
File: Plasma-PSU\_Eurocard\_Flyback.sch

**Title: Plasma-PSU\_Eurocard\_Flyback**

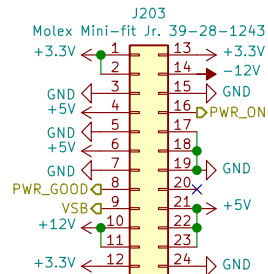
Size: A4 Date: 2020-04-08

Rev: 0.0.4

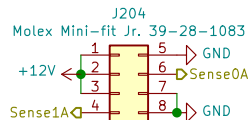
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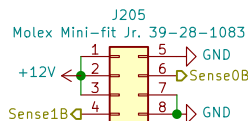
## POWER CONNECTORS



Molex 5566 24-pin  
ATX power connector  
(max 75W to SMPS)

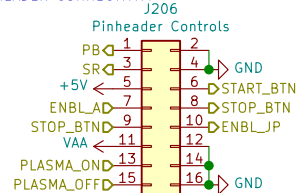


Additional PCIe 8-pin  
power connector  
for additional 150W  
(75W if 6-pin connected)



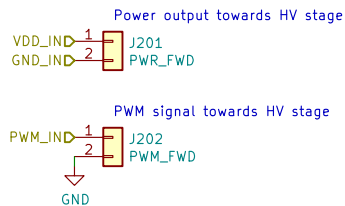
Additional PCIe 8-pin  
power connector  
for additional 150W  
(75W if 6-pin connected)

## PINHEADER CONNECTIVITY

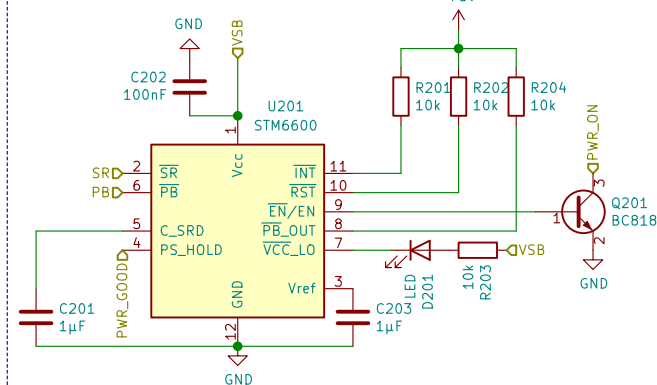


Pinheader configuration:  
1-2 Power button  
3-4 Reset button  
5-6 Start button  
7-8 Stop button  
9-10 Interrupt jumper  
11-12 LED Power on  
13-14 LED Plasma on  
15-16 LED Plasma off

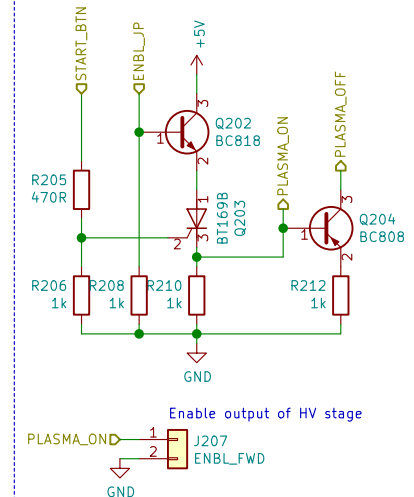
## CONNECTIVITY TOWARDS HV BOARD



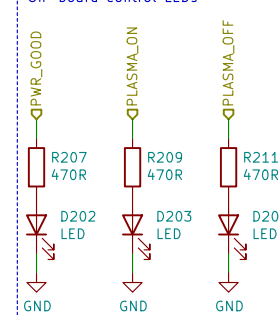
## STANDBY & SOFT START CONTROLLER



## Latch control for HV stage



## On-board control LEDs



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Sheet: /Plugs\_and\_Controls/  
File: Plugs\_and\_Controls.sch

**Title: Plasma-PSU\_Eurocard\_Flyback**

Size: A4 Date: 2020-04-08

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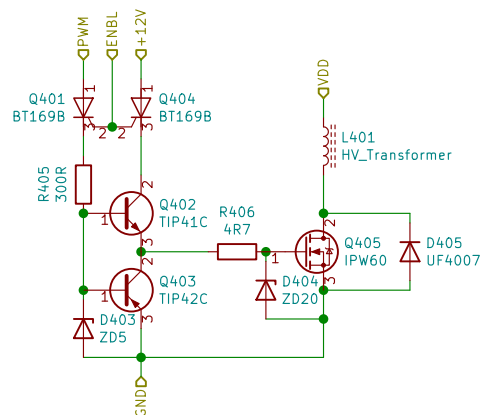
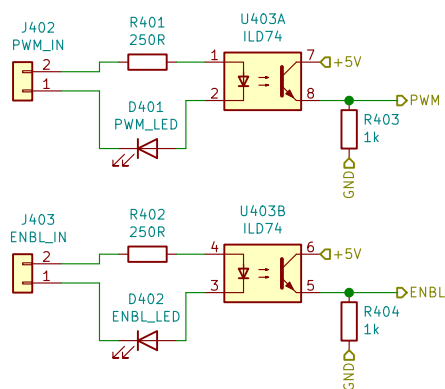
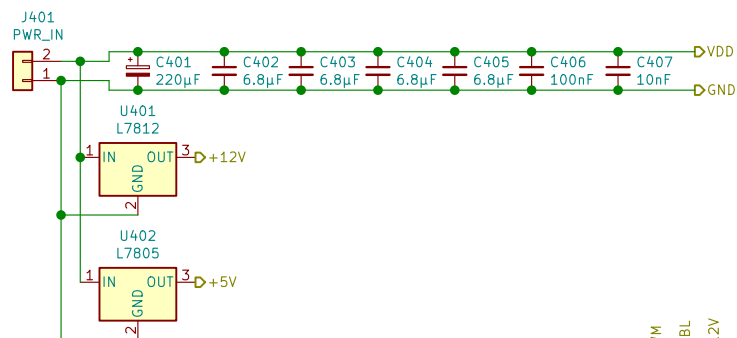
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Sheet: /Flyback\_HV\_stage/

File: Flyback\_HV\_stage.sch

**Title: Plasma-PSU\_Eurocard\_Flyback**

Size: A4 Date: 2020-04-08

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Rev: 0.0.4

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