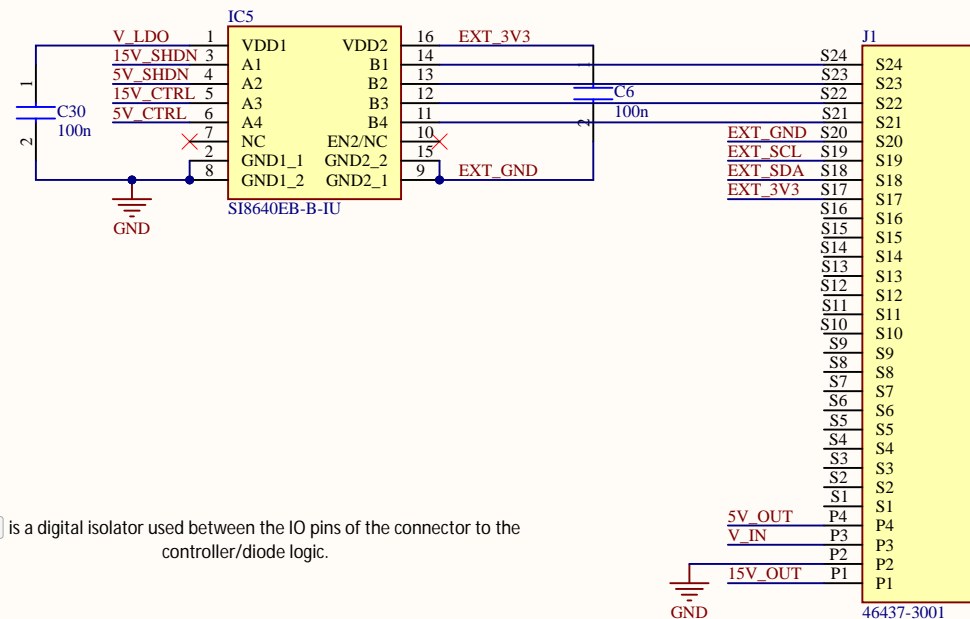
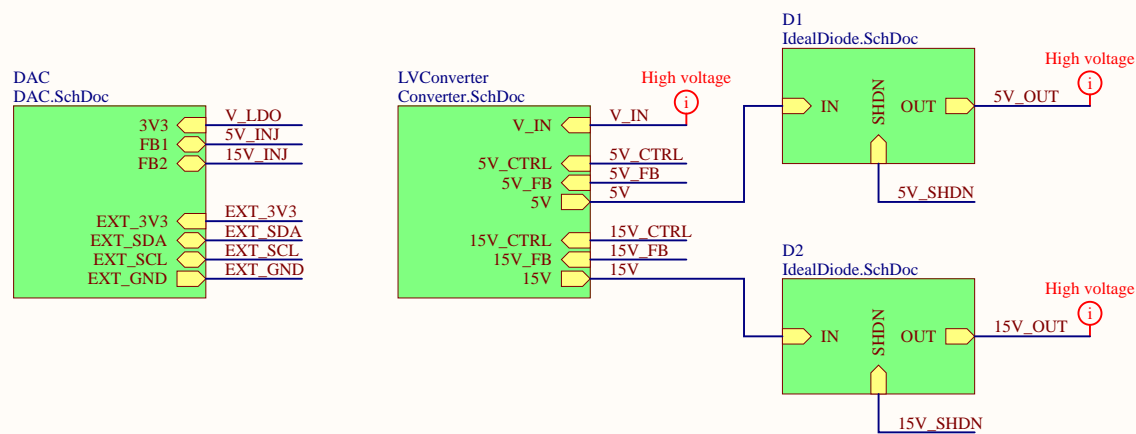


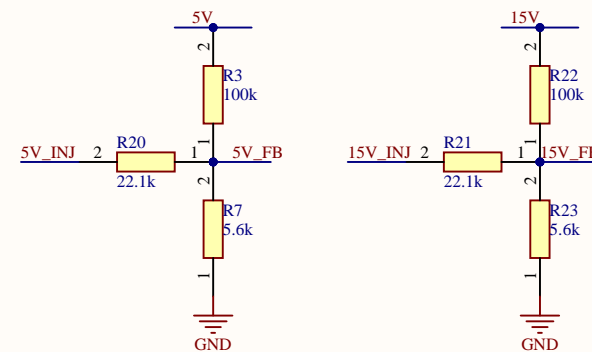
PS1 is a 80mA LDO to power the digital isolators and the DAC.



IC5 is a digital isolator used between the IO pins of the connector to the controller/diode logic.

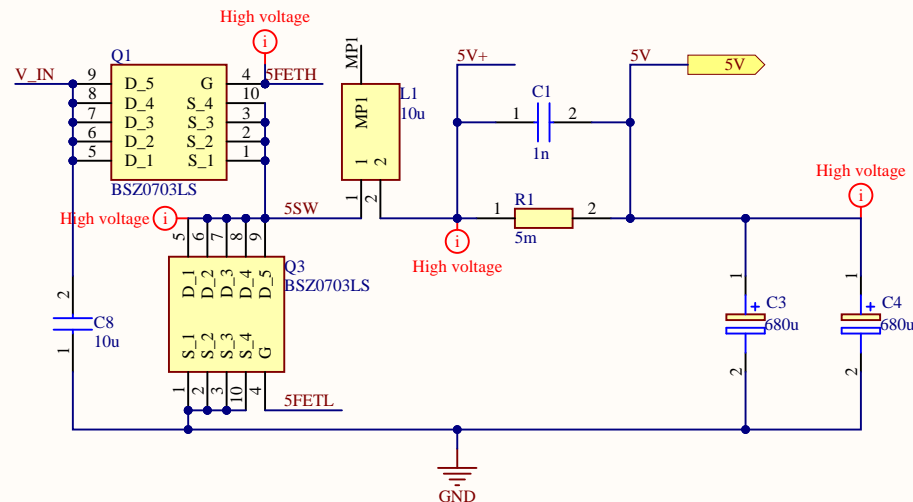


Dual buck top-level with ideal diodes.

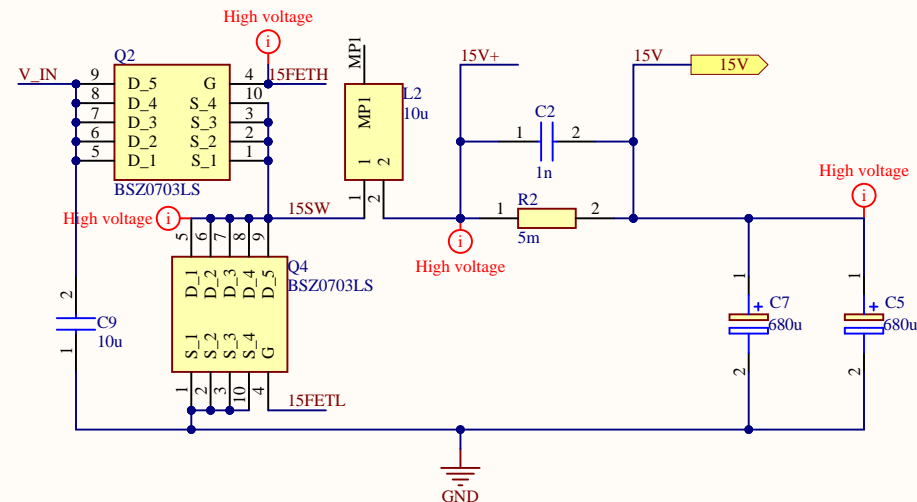


Here, a DAC injects current into the feedback loop of the DC/DC converters.  
Feedback reference: 1.2V  
The voltage span is  $(R7+R3)/R20 * 0.8V$

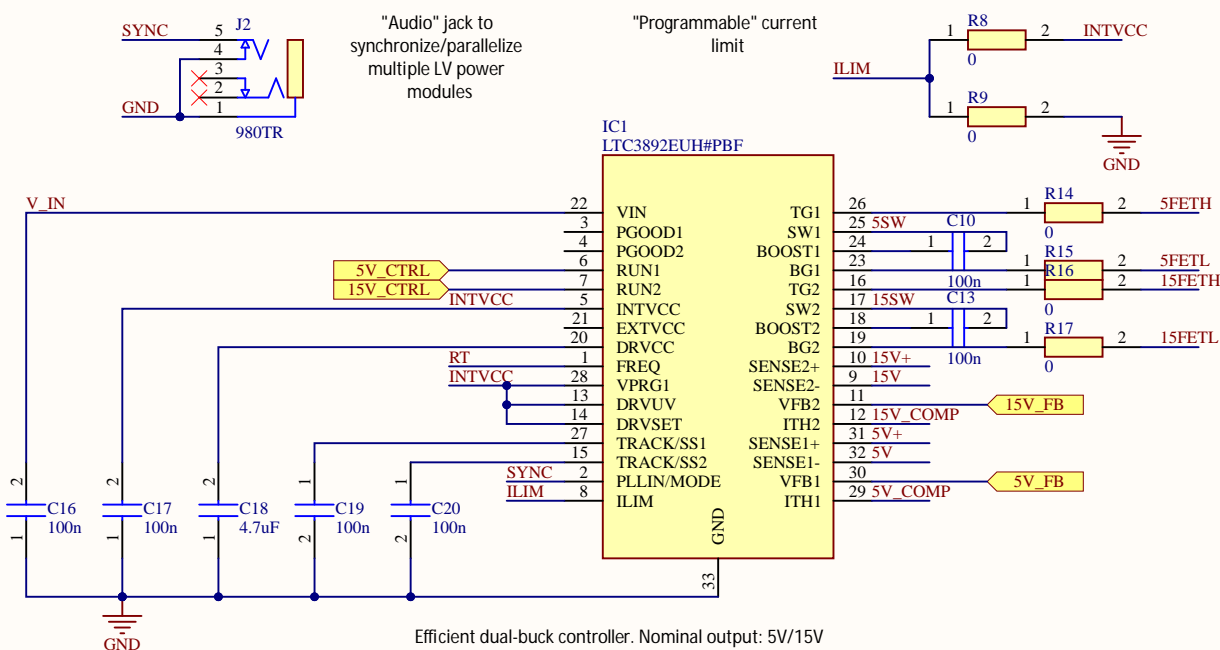
<div> <div>Title</div> <div>Low-voltage Power Module (Nominal voltages: 5V/15V)</div> </div>			
Size	Number	Revision	
A4	1	1	
Date:	4.04.2023	Sheet of	EPFL Xplore
File:	\\.\Module.SchDoc	Drawn By:	Arion Zimmermann



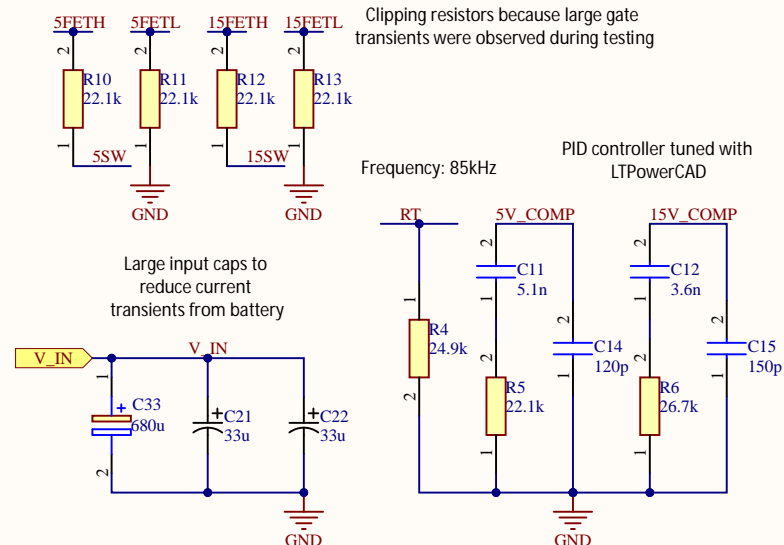
5V nominal output voltage buck power stage. 15A current limit.



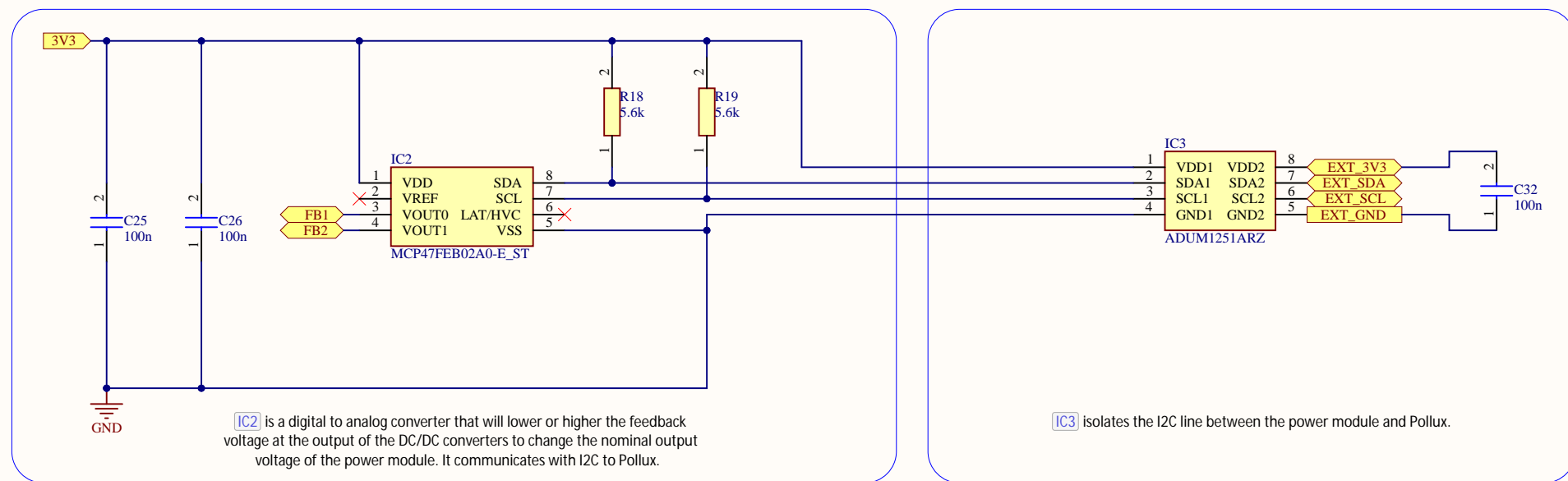
15V nominal output voltage buck power stage. 15A current limit.



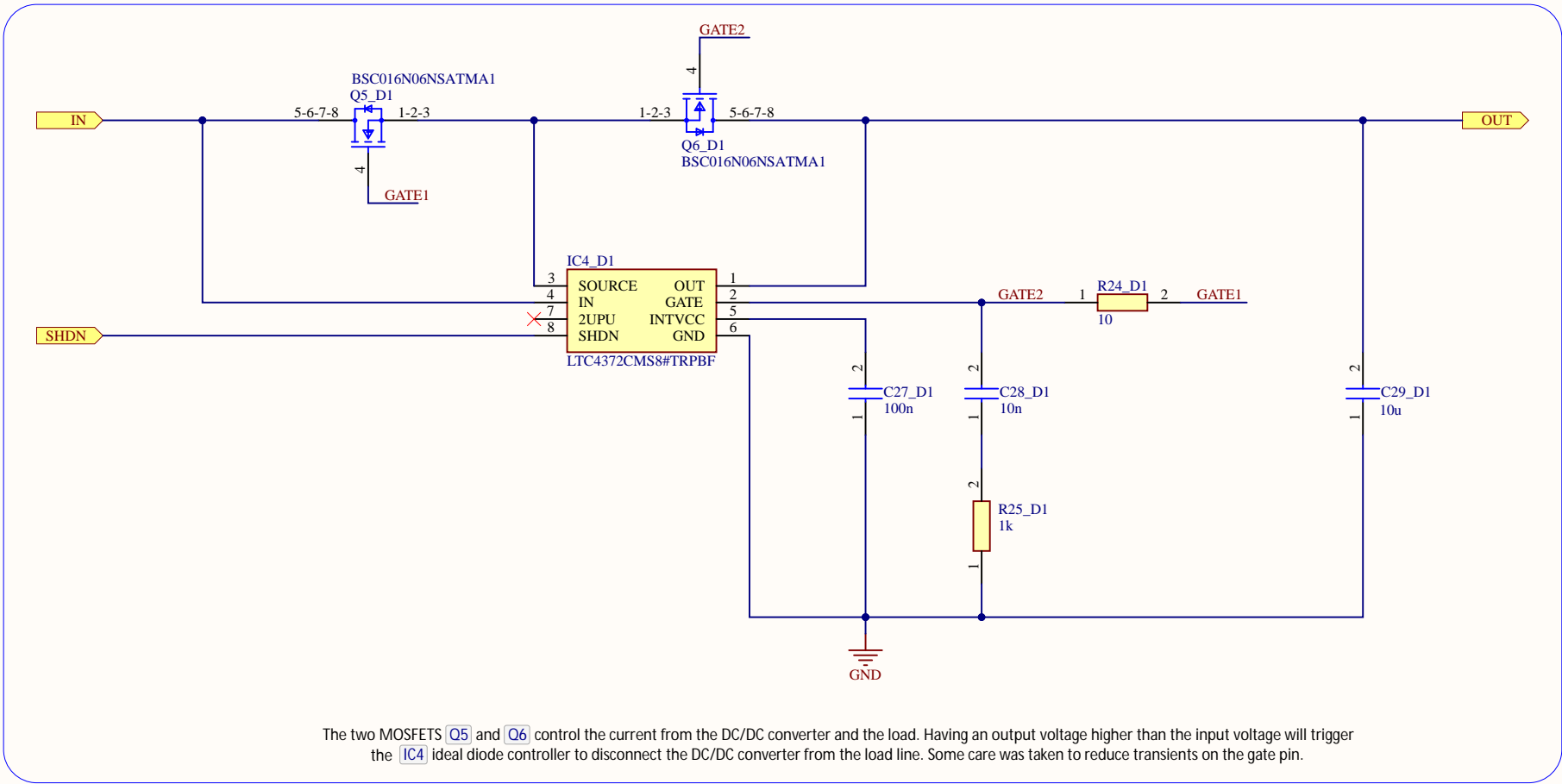
Efficient dual-buck controller. Nominal output: 5V/15V



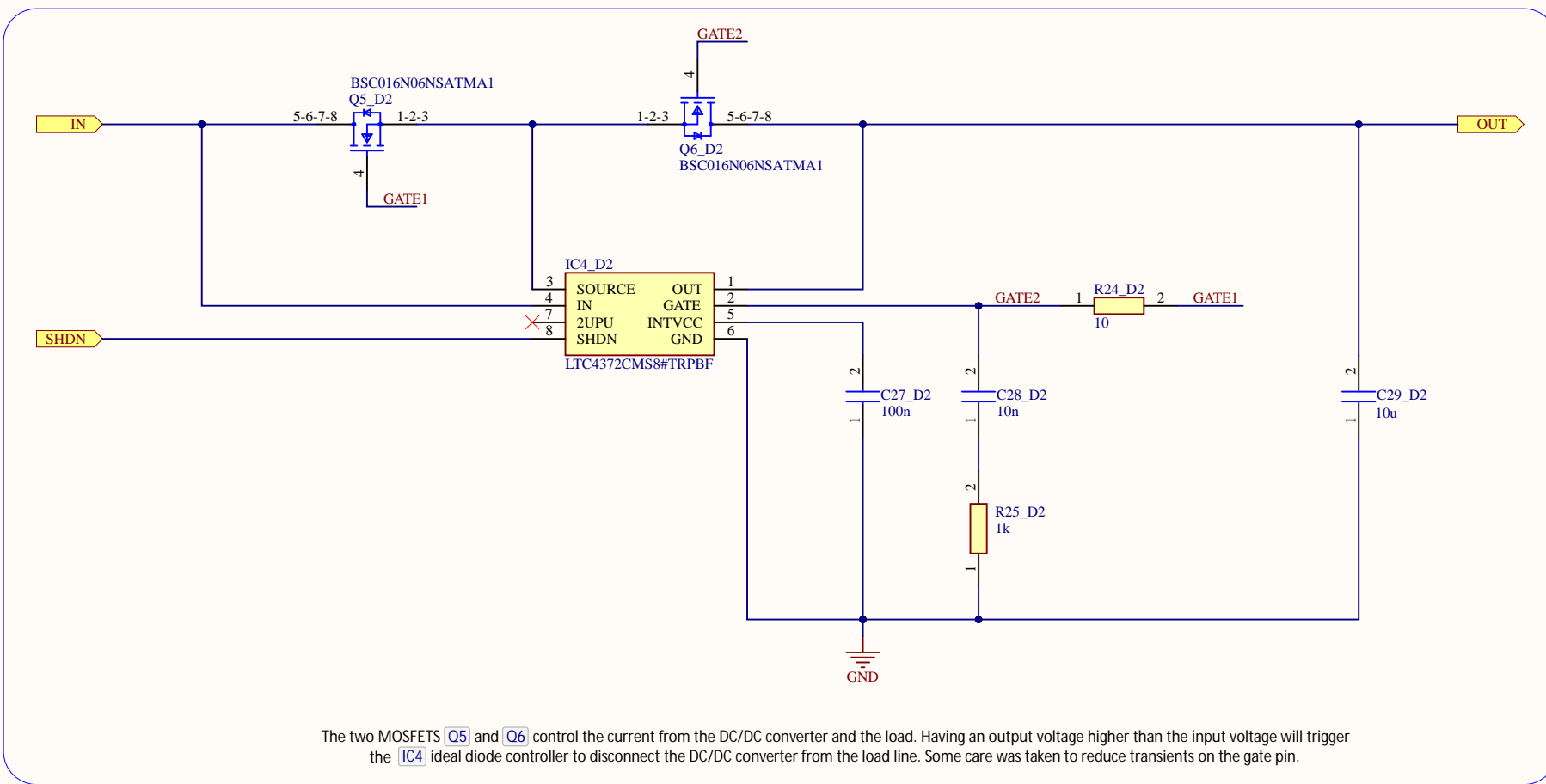
Title		
Power Module LTC3892 Dual Buck Converters (24V --> 5V / 15V)		
Size	Number	Revision
A4	1	1
Date:	4.04.2023	Sheet of EPFL Xplore
File:	\\.\Converter.SchDoc	Drawn By: Arion Zimmermann



Title Isolated Digital-to-Analog Converter		
Size A4	Number 1	Revision 1
Date: 4.04.2023	Sheet of EPFL Xplore	
File: \\.\DAC.SchDoc	Drawn By: Arion Zimmermann	



Title Ideal Diode		
Size A4	Number 1	Revision 1
Date: 4.04.2023	Sheet of EPFL Xplore	
File: \\.\IdealDiode.SchDoc	Drawn By: Arion Zimmermann	



Title Ideal Diode		
Size A4	Number 1	Revision 1
Date: 4.04.2023	Sheet of EPFL Xplore	
File: \\.\IdealDiode.SchDoc	Drawn By: Arion Zimmermann	

