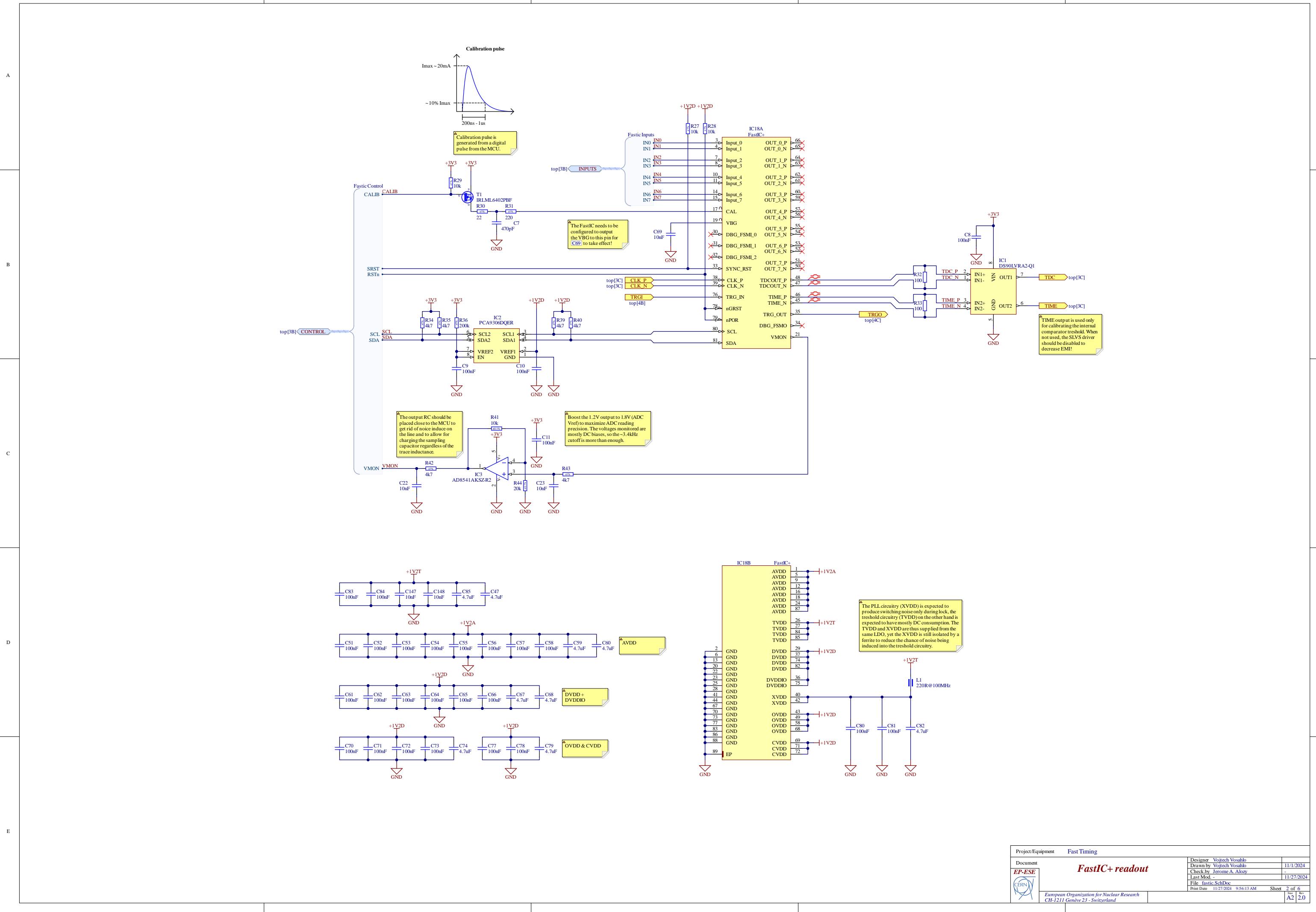
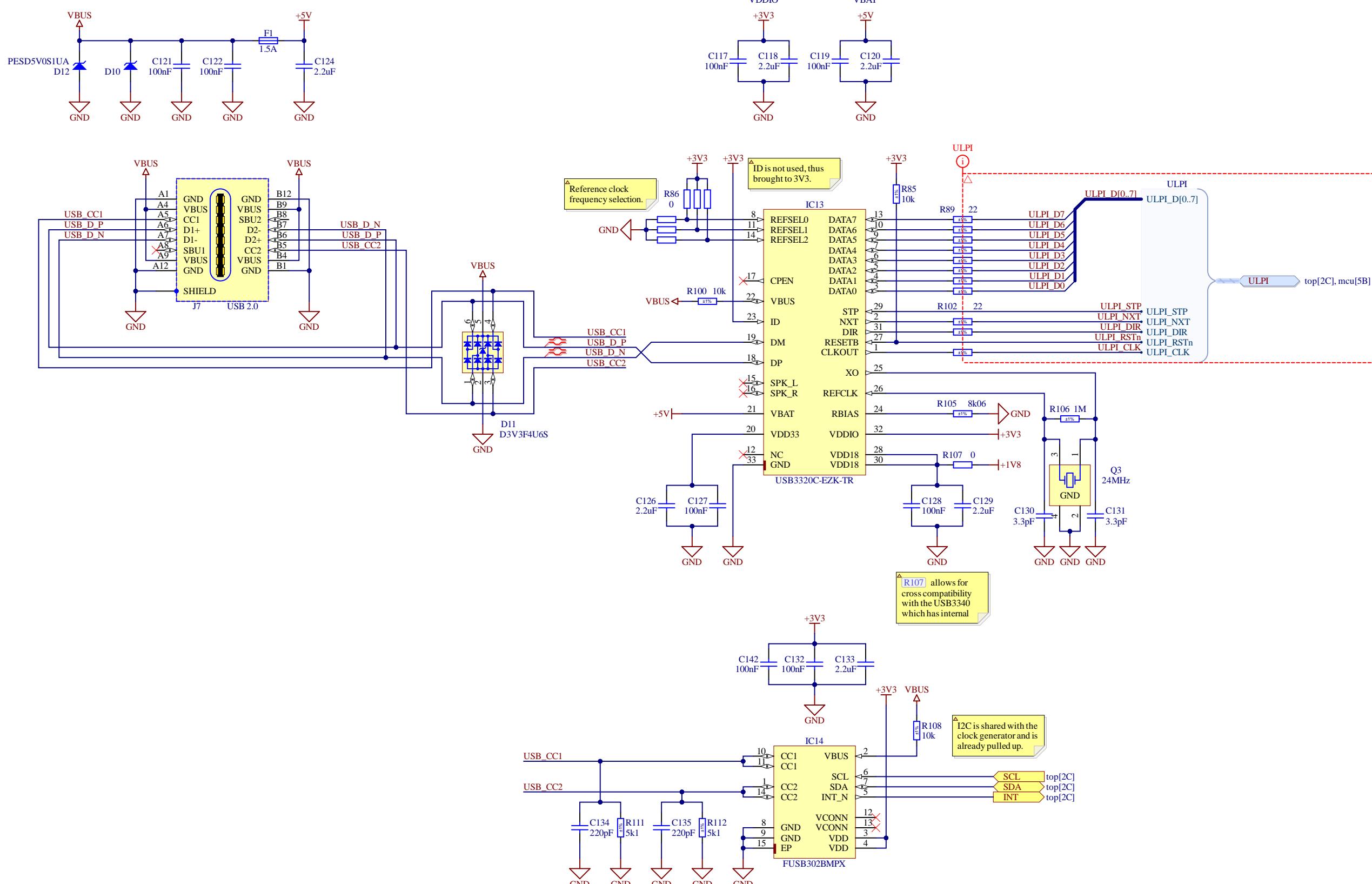


Project/Equipment	Fast Timing	Designer	Vojtech Vosahl	Drawn by	Vojtech Vosahl	11/1/2024
Document	<b>FastIC+ readout</b>	Check by	Jerome A. Alozy	Last Mod.		11/27/2024
<b>EP-ESE</b>		File	top.SchDoc	Print Date	11/27/2024 9:56:13 AM	Sheet 1 of 6
	European Organization for Nuclear Research CERN-IBID-Organization developed					A2 2.0

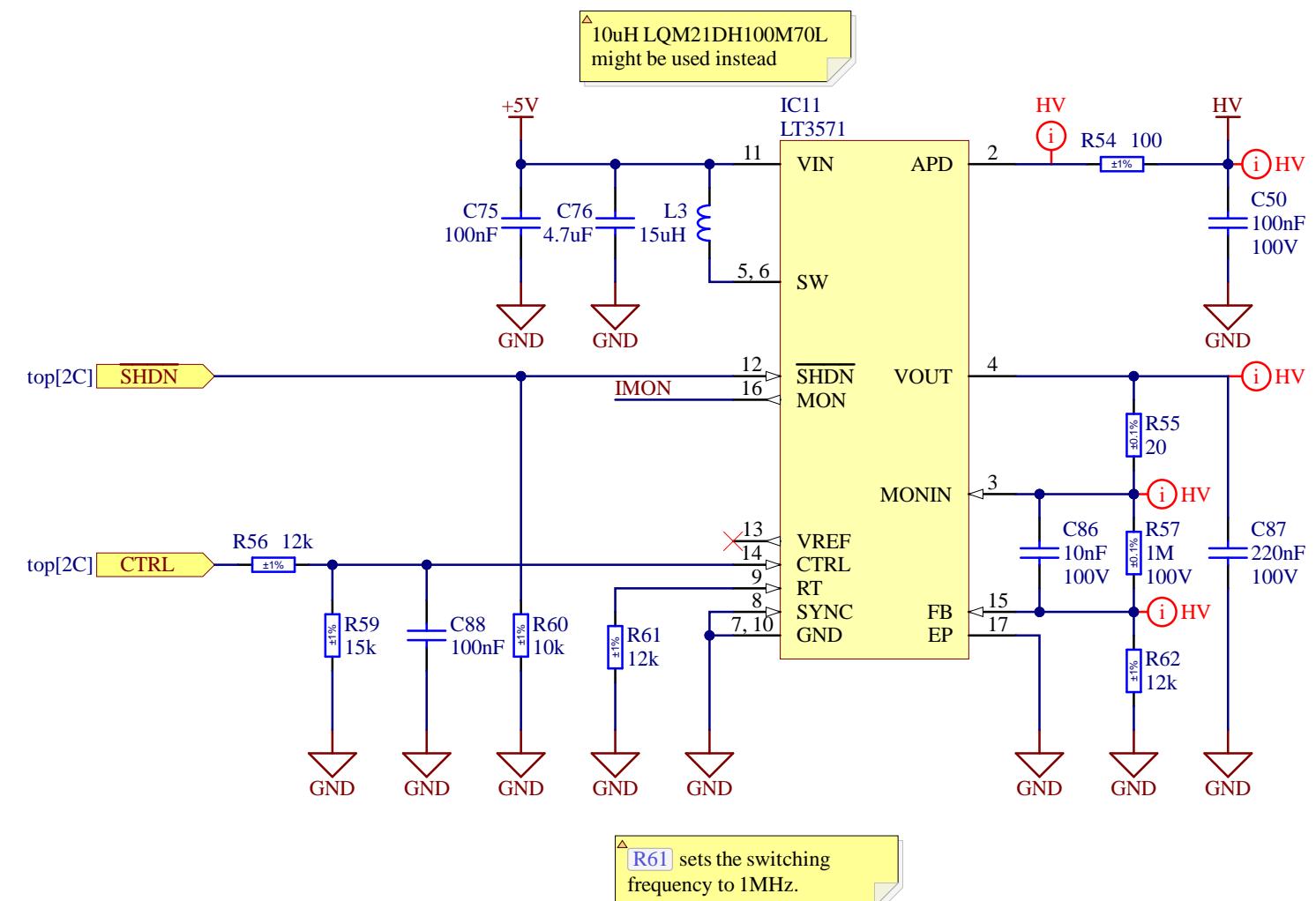
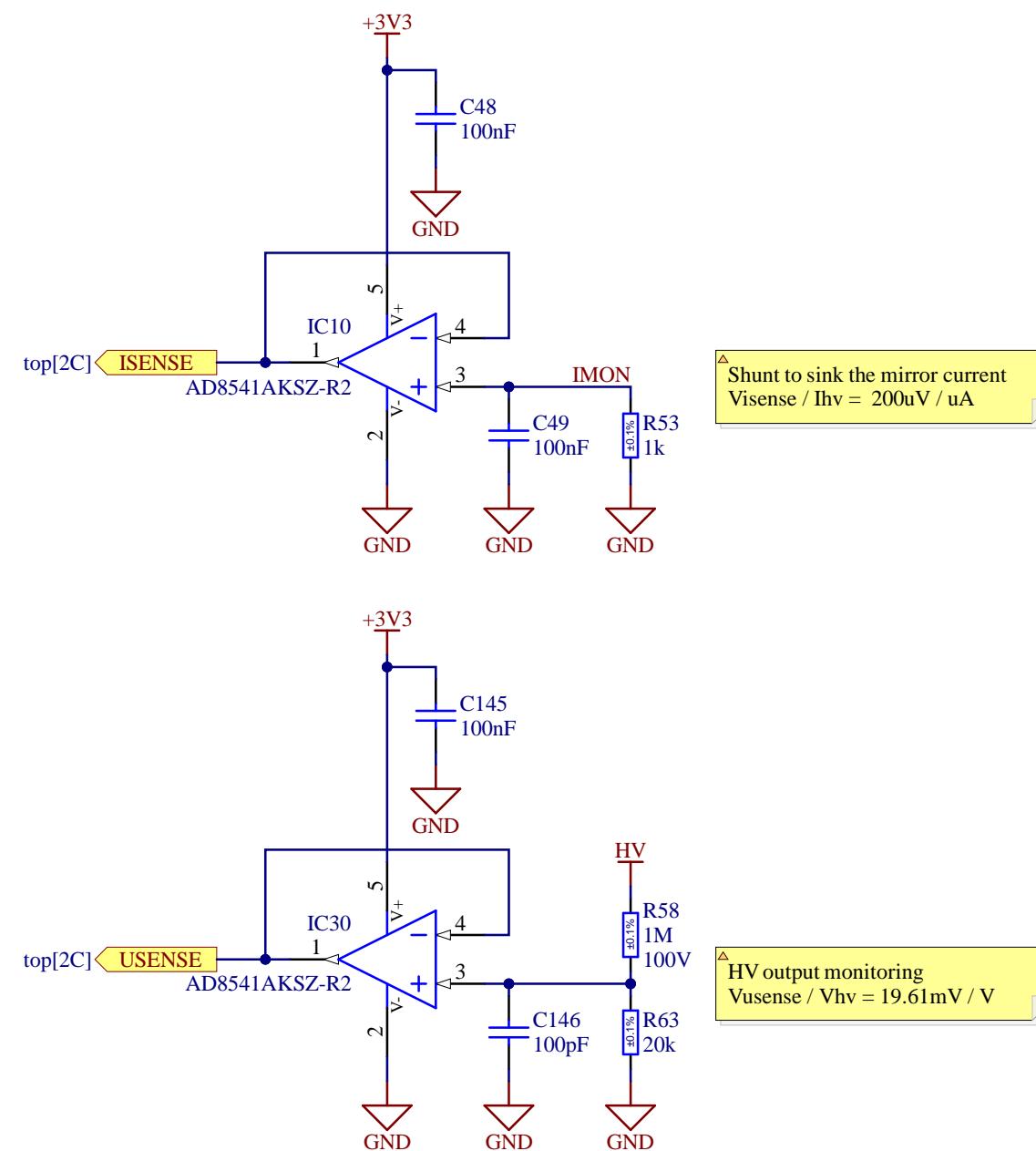


A



Project/Equipment		FastIC+ readout	
Document			
<b>EP- ESE</b>	<b>FastIC+ readout</b>		
	Designer	Vojtech Vosahlo	
	Drawn by	Vojtech Vosahlo	11/1/2024
	Check by	Jerome A. Alozy	
	Last Mod.		11/27/2024
	File	usb.SchDoc	
	Print Date	11/27/2024 9:56:13 AM	Sheet 3 of 6
			Size A3 Rev 2.0

A



Project/Equipment

Fast Timing

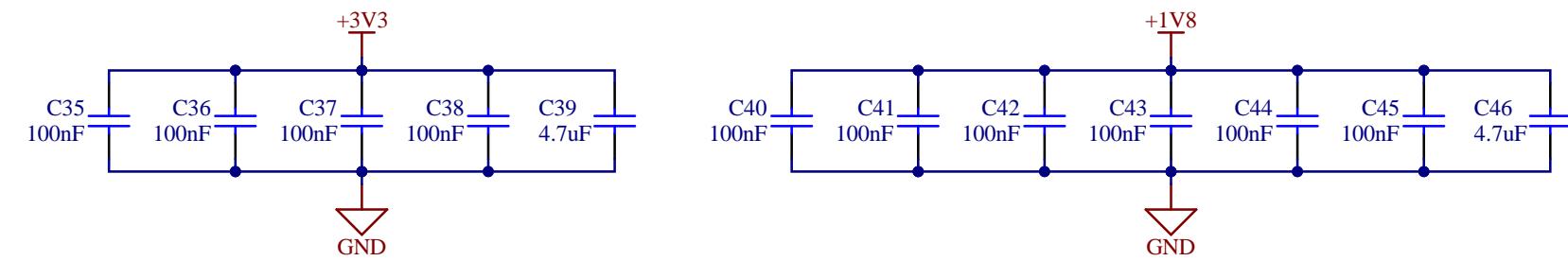
Document

EP- ESE

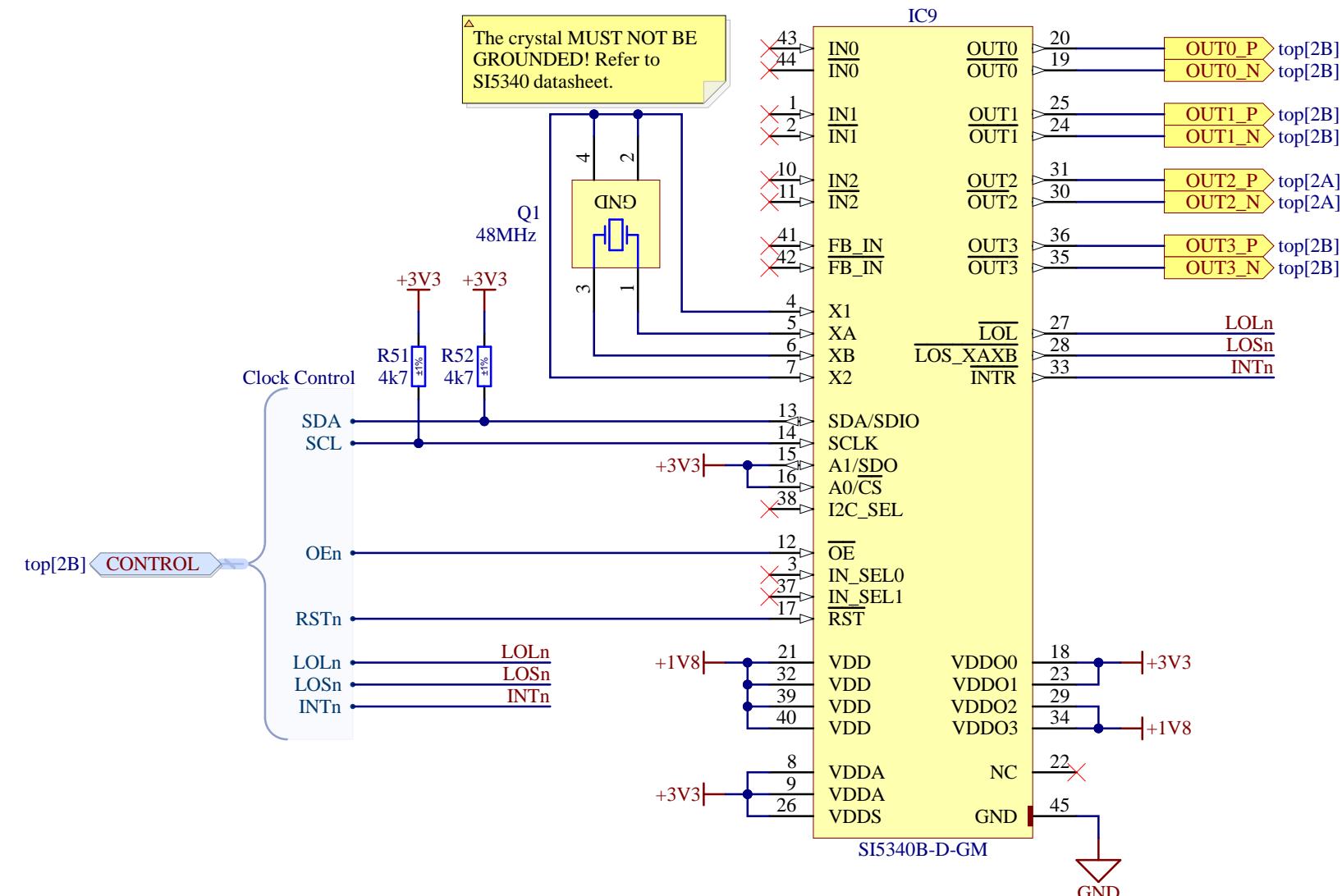
**FastIC+ readout**

Designer	Vojtech Vosahlo	
Drawn by	Vojtech Vosahlo	11/1/2024
Check by	Jerome A. Alozy	
Last Mod.	11/15/2024	
File	hv.SchDoc	
Print Date	11/27/2024 9:56:13 AM	Sheet 4 of 6
Size	A4	Rev 2.0

A



B



C

Project/Equipment		Fast Timing			
Document	Fast Timing				
EP-ESE	<b>FastIC+ readout</b>				
CERN					
Designer Vojtech Vosahlo					
Drawn by Vojtech Vosahlo					
Check by Jerome A. Alozy					
Last Mod. 11/15/2024					
File clock.SchDoc					
Print Date 11/27/2024 9:56:13 AM					
Sheet 5 of 7					
Size A4					
Rev 2.0					

A

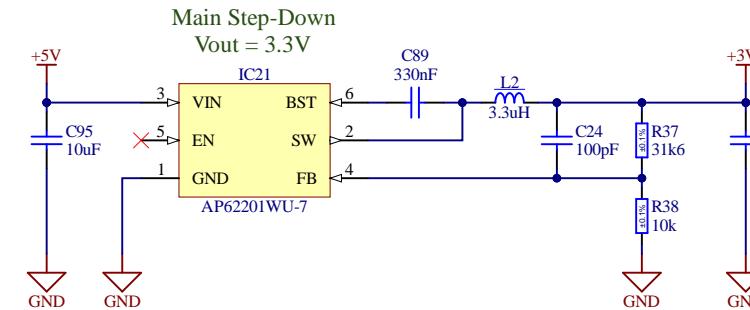
A

**Power Consumption (Absolute Maximum)**  
 Pmax(FastICs)=230mW  
 Pmax(Clock)=860mW  
 Pmax(USB)=100mW  
 Pmax(STM32)=1000mW  
 Pmax(HV)=160mW

Pmax ~ 2.4W which should fit into the USB 2.0 current specification (2.5W).

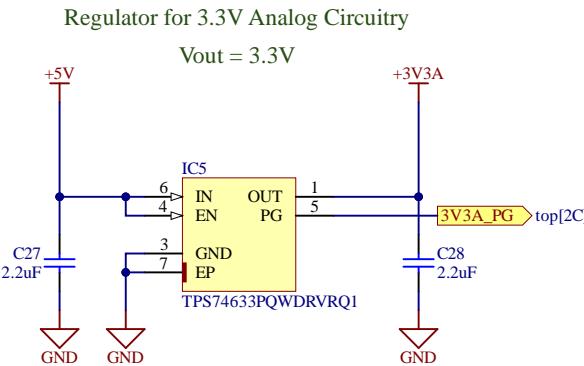
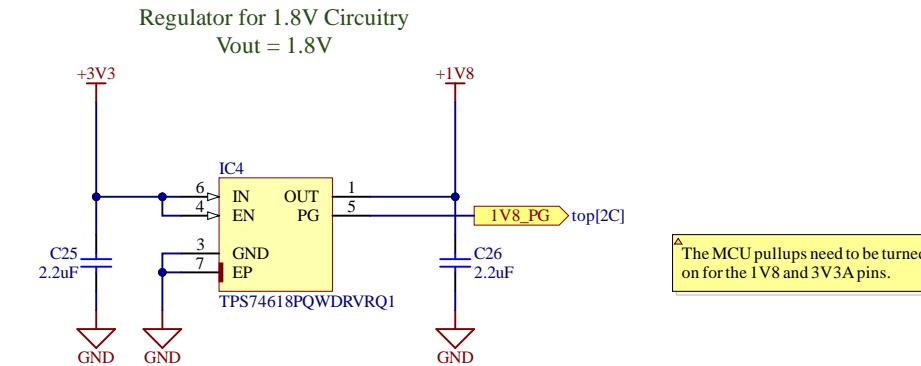
B

B



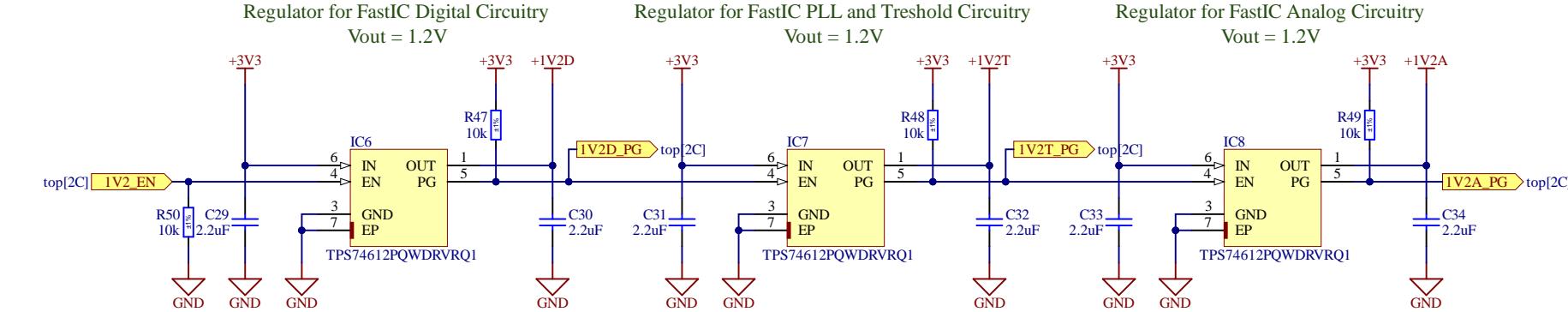
C

C



D

D



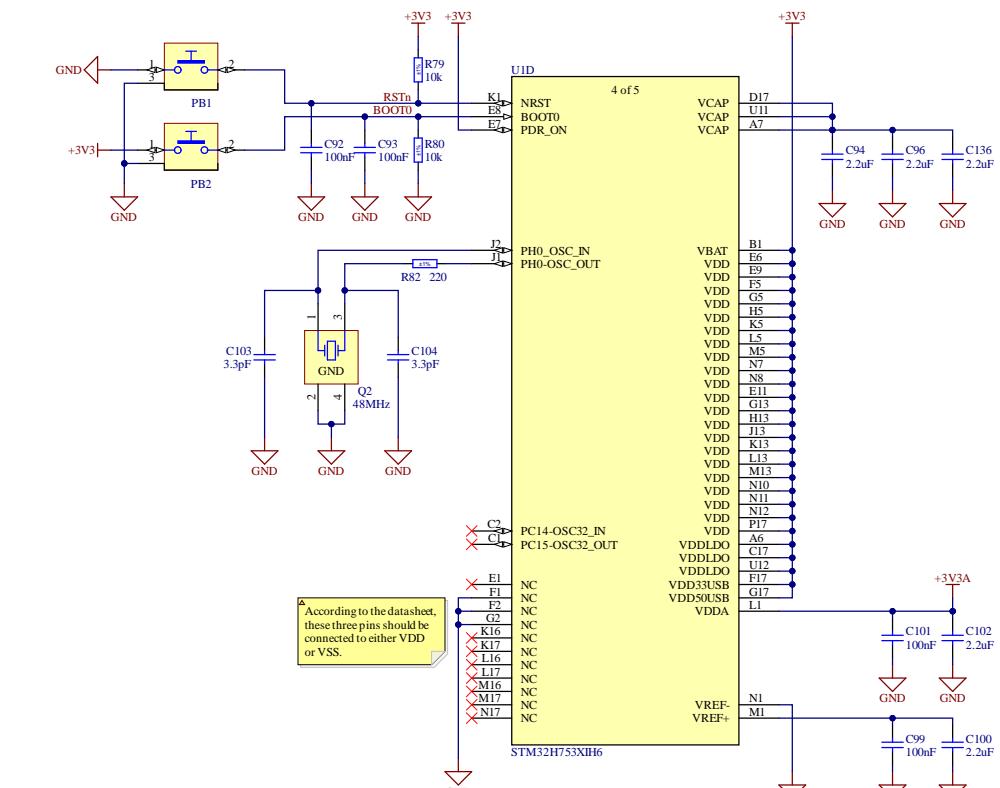
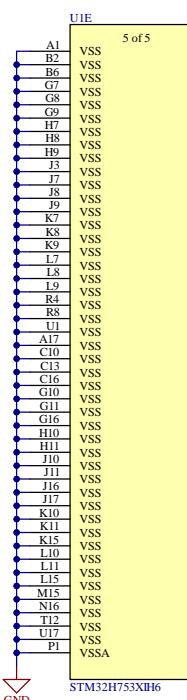
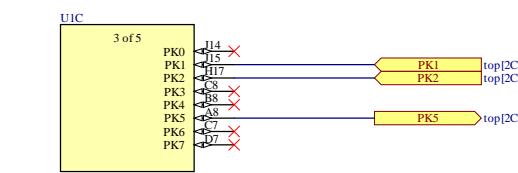
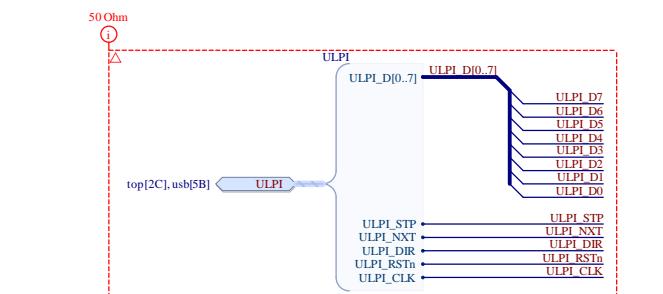
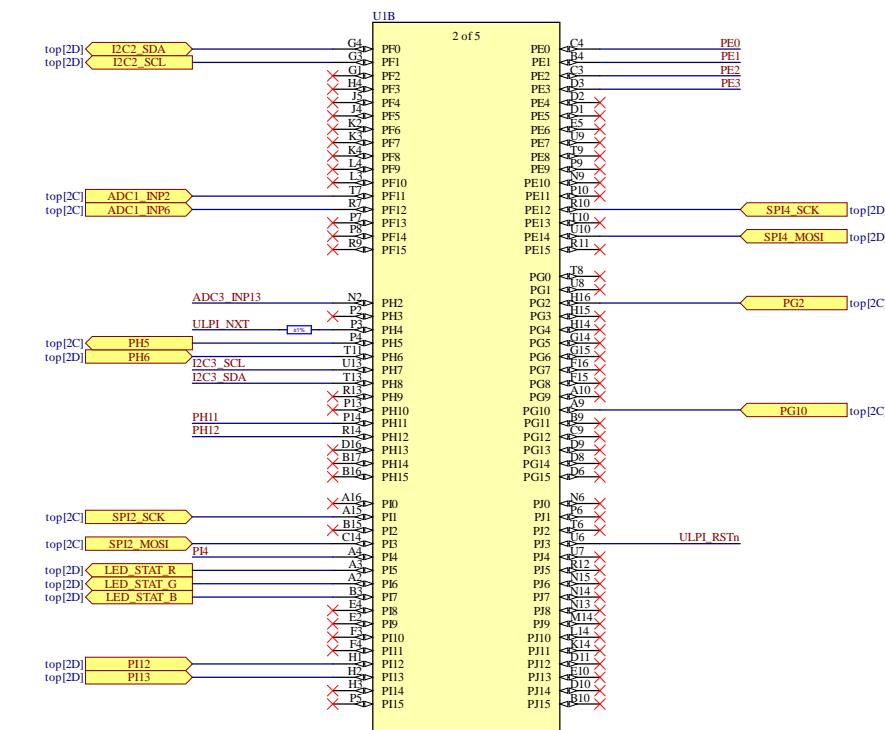
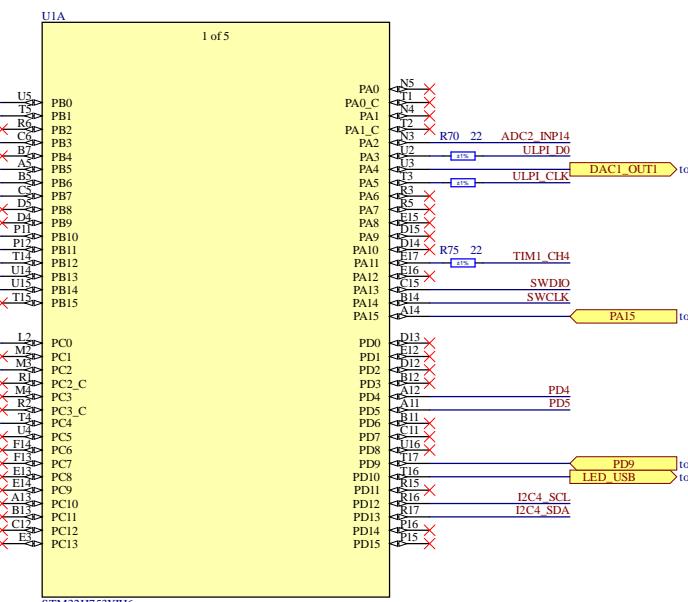
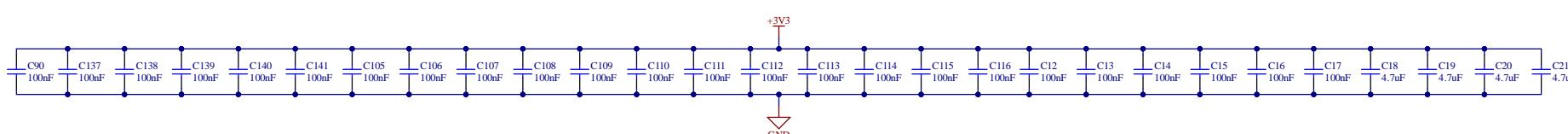
E

E

Project/Equipment		Fast Timing	
Document	EP-ESE	Designer	Vojtech Vosahlo
		Drawn by	Vojtech Vosahlo
		Check by	Jerome A. Alozy
		Last Mod.	11/27/2024
		File	power.SchDoc
		Print Date	11/27/2024 9:56:13 AM
		Sheet	6 of 6
		Size	Rev A3 2.0

**FastIC+ readout**

European Organization for Nuclear Research  
CH-1211 Genève 23 - Switzerland



Project/Equipment		Fast Timing	
Document	IP-ESE	Designer	Vojtech Vosahlo
		Drawn by	Vojtech Vosahlo
		Check by	Jerome A. Alozy
		Last Mod.	11/15/2024
		File	mcu.SchDoc
		Print Date	11/27/2024 9:56:13 AM
		Sheet	6 of 6
		Size	A2 2.0
European Organization for Nuclear Research CH-1211 Genève 23 - Switzerland			