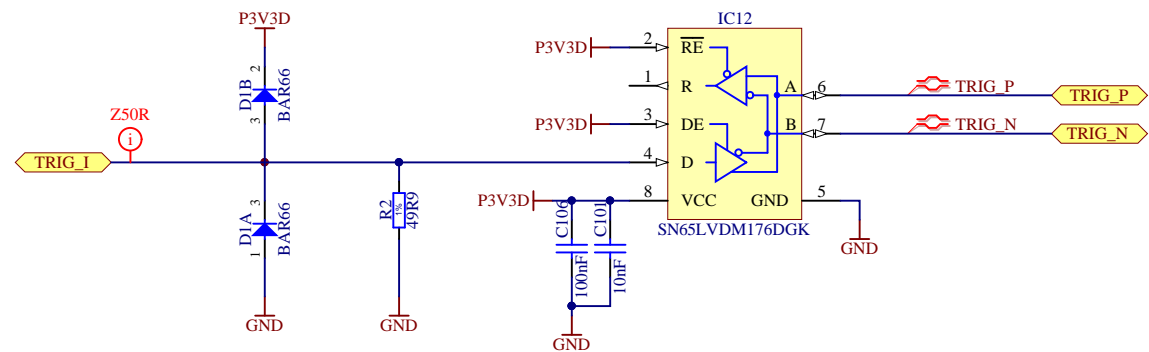



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Project/Equipment			FMC DDS v2 (FMCDac600m12b1ChaDDS)		
Document			Designer		
			G.K., T.W.		04/07/2014
			Drawn by		G.K., T.W.
			Check by		B. Civel
			Last Mod.		B. Civel
			File		Trigger.SchDoc
			Print Date		28.11.2018 22:31:44
			Sheet		3 of 10
			Size		A4
			Rev		-

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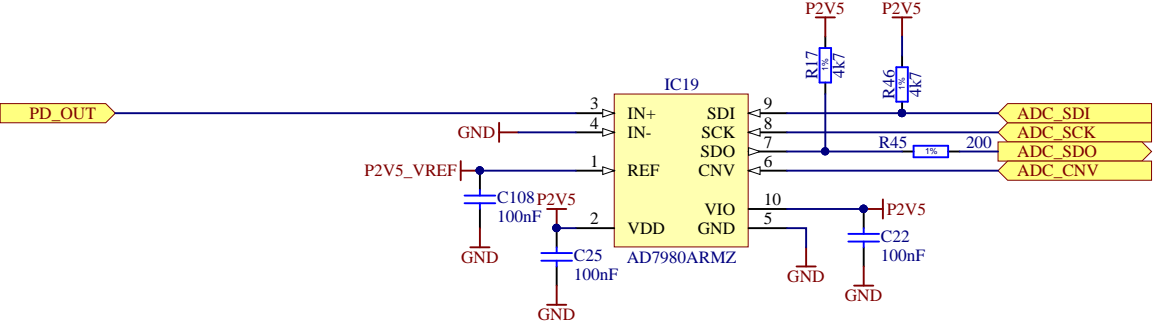
EDA-03010-V2-0








Serial Data Input. This input provides multiple features. It selects the interface mode of the ADC as follows. Chain mode is selected if SDI is low during the CNV rising edge. In this mode, SDI is used as a data input to daisy-chain the conversion results of two or more ADCs onto a single SDO line. The digital data level on SDI is output on SDO with a delay of 16 SCK cycles. CS mode is selected if SDI is high during the CNV rising edge. In this mode, either SDI or CNV can enable the serial output signals when low; if SDI or CNV is low when the conversion is complete, the busy indicator feature is enabled.

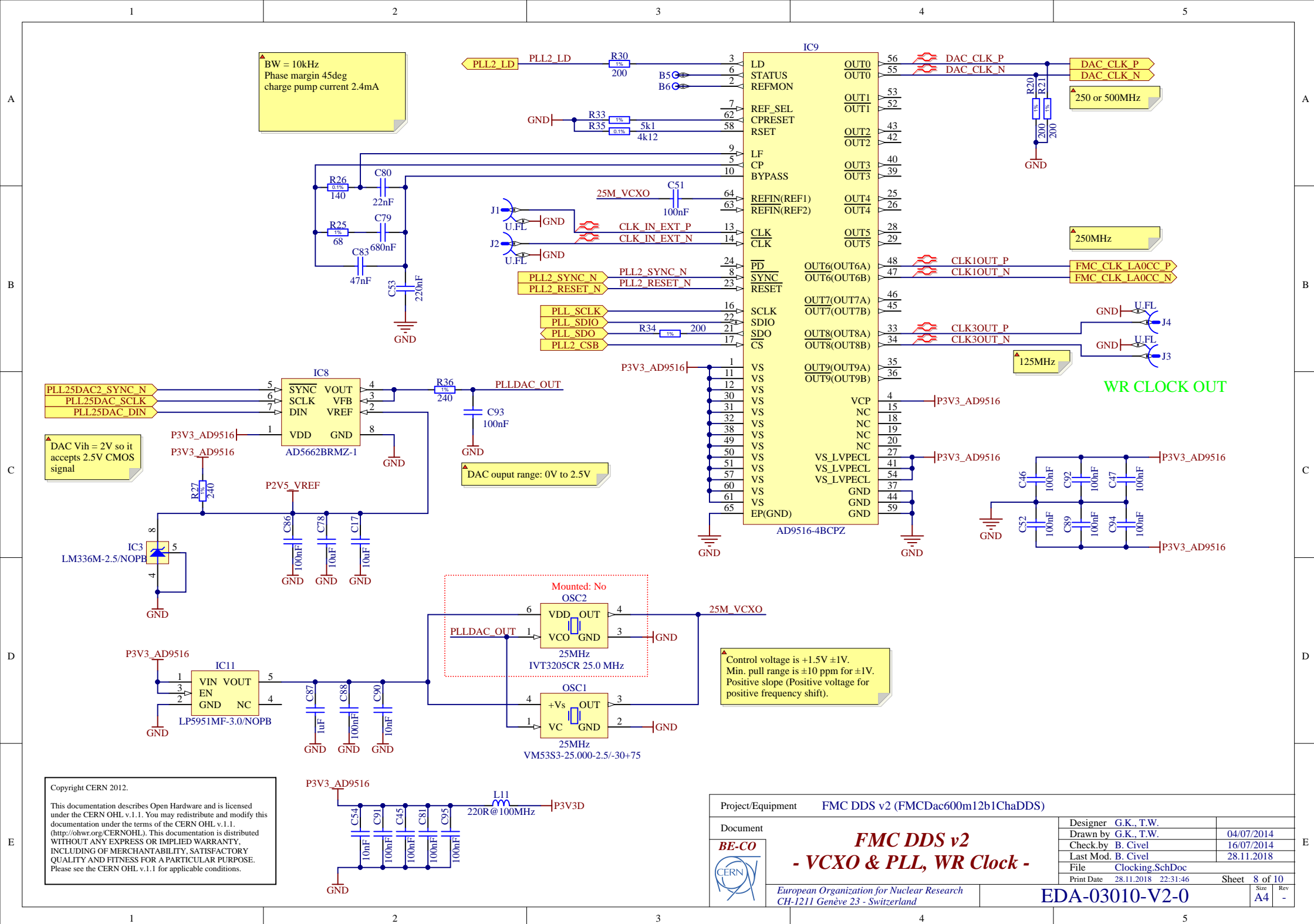


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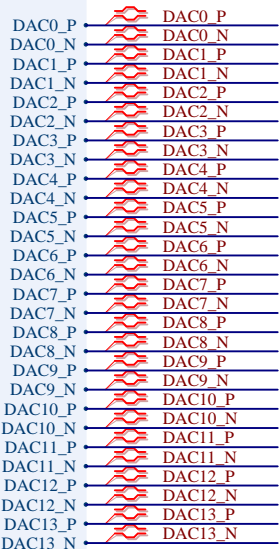
Project/Equipment		FMC DDS v2 (FMCDac600m12b1ChaDDS)	
<div>Document</div> <div>BE-CO</div> <div></div>	Designer	G.K., T.W.	
	Drawn by	G.K., T.W.	04/07/2014
	Check by	B. Civel	16/07/2014
	Last Mod.	B. Civel	28.11.2018
	File	ADC_filter.SchDoc	
Print Date		28.11.2018 22:31:46	Sheet 7 of 10
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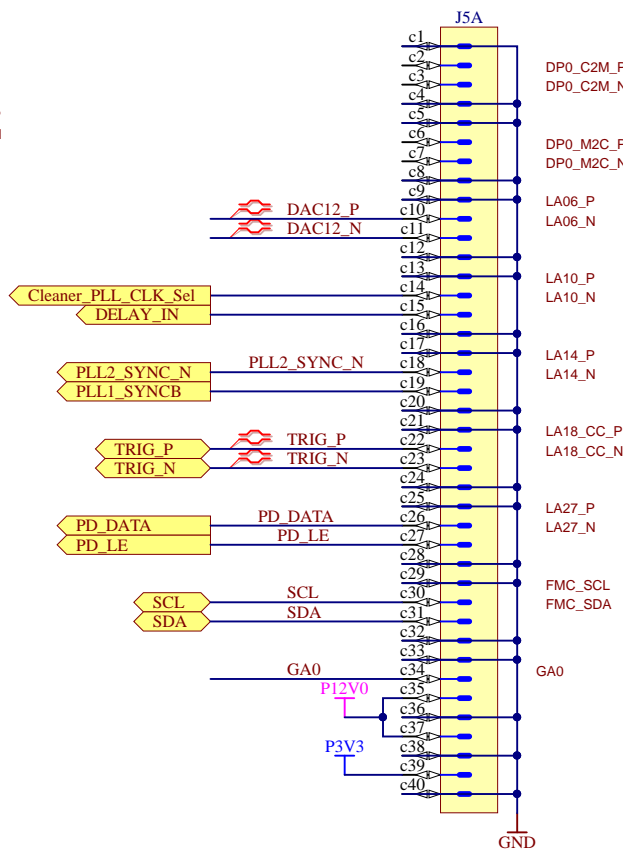
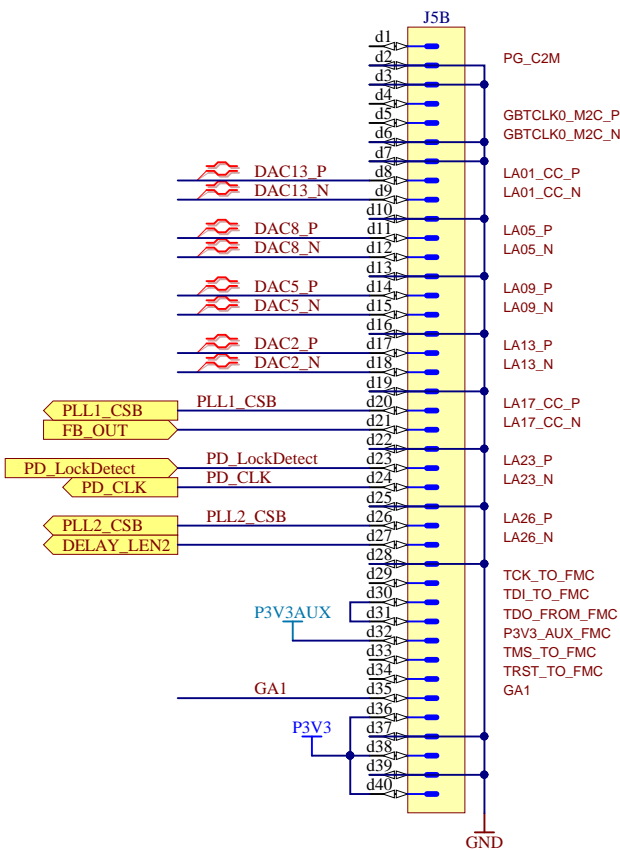
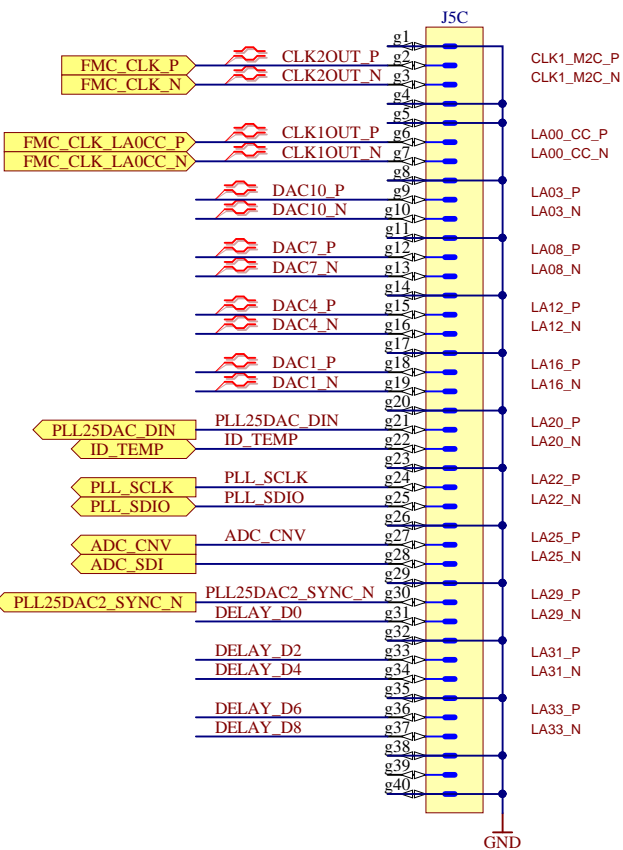
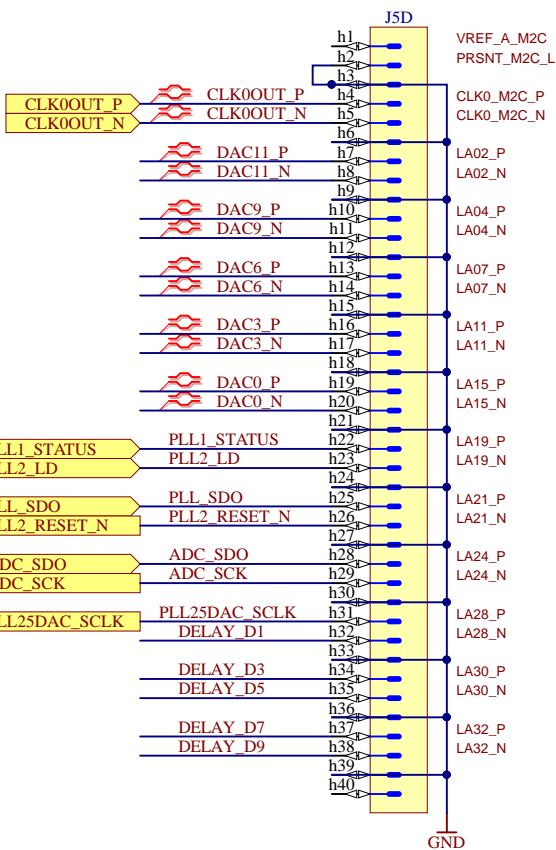
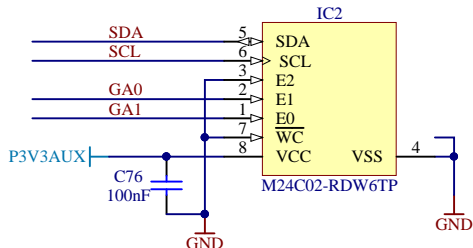




DAC\_DAT



DAC\_DAT



DELAY\_D[9..0] DELAY\_D[9..0]

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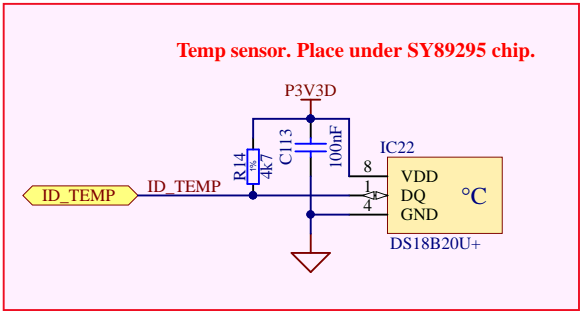
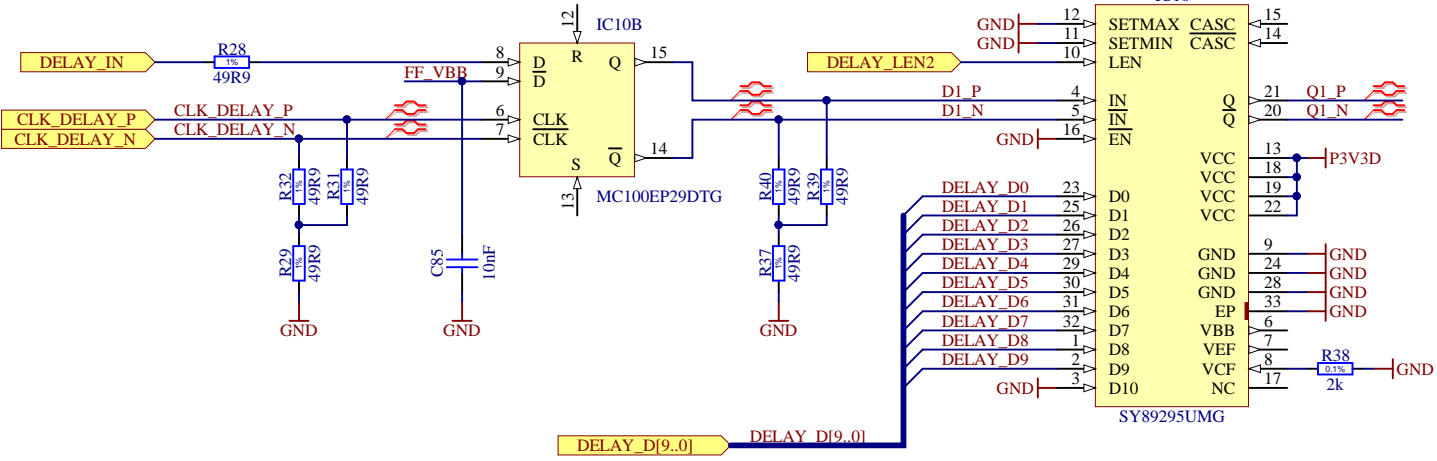
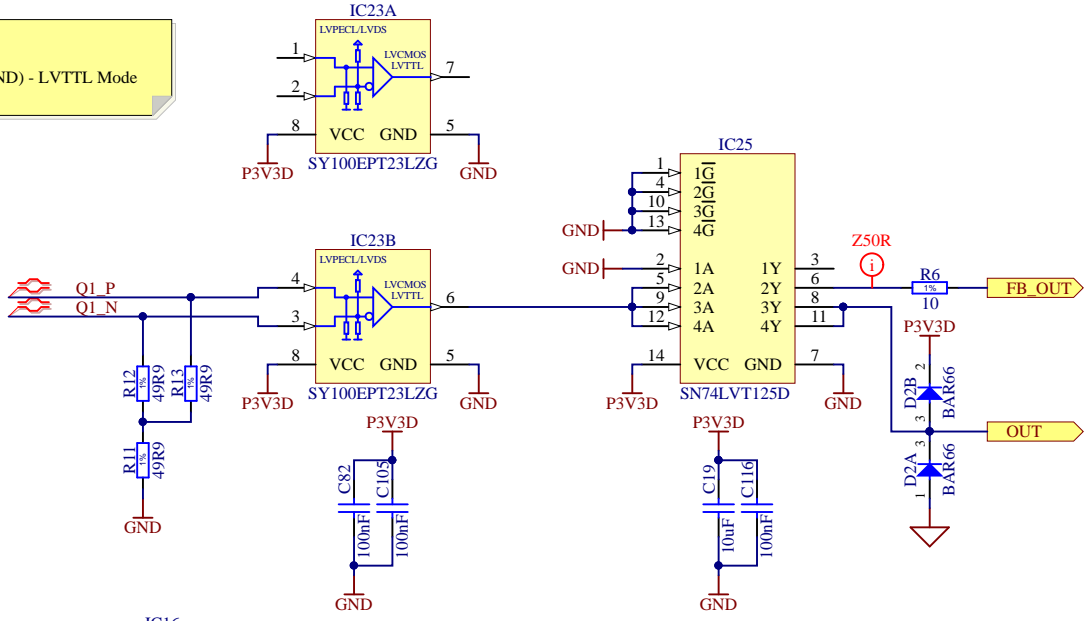
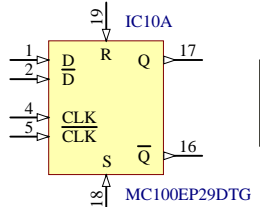
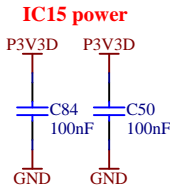


Project/Equipment		FMC DDS v2 (FMCdAc600m12b1ChaDDS)	
Document		Designer G.K., T.W.	
BE-CO		Drawn by G.K., T.W.	
CERN		Check by B. Civel	
European Organization for Nuclear Research		Last Mod. B. Civel	
CH-1211 Genève 23 - Switzerland		File FMC.SchDoc	
		Print Date 28.11.2018 22:31:46	
		Sheet 9 of 10	
		EDA-03010-V2-0	
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MC100LEVEL input current is about 100..300uA  
In order to translate LVCMOS to LVPECL/LVDS simple resistive network can be used

VCF = VEF Pin (Note 4) ECL Mode  
VCF = No Connect LVCMOS Mode  
VCF = 1.5 V +/- 100 mV (or 2k2 resistor to GND) - LVTTTL Mode (Note 5)

R/S inputs are low if unconnected



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Document		Designer G.K., T.W.	
		Drawn by G.K., T.W.	04/07/2014
		Check by B. Civel	16/07/2014
		Last Mod. B. Civel	28.11.2018
		File delay.SchDoc	
		Print Date 28.11.2018 22:31:47	Sheet 10 of 10
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BE-CO

**FMC DDS v2**

**- Fine Delay, Output Buffers -**

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