
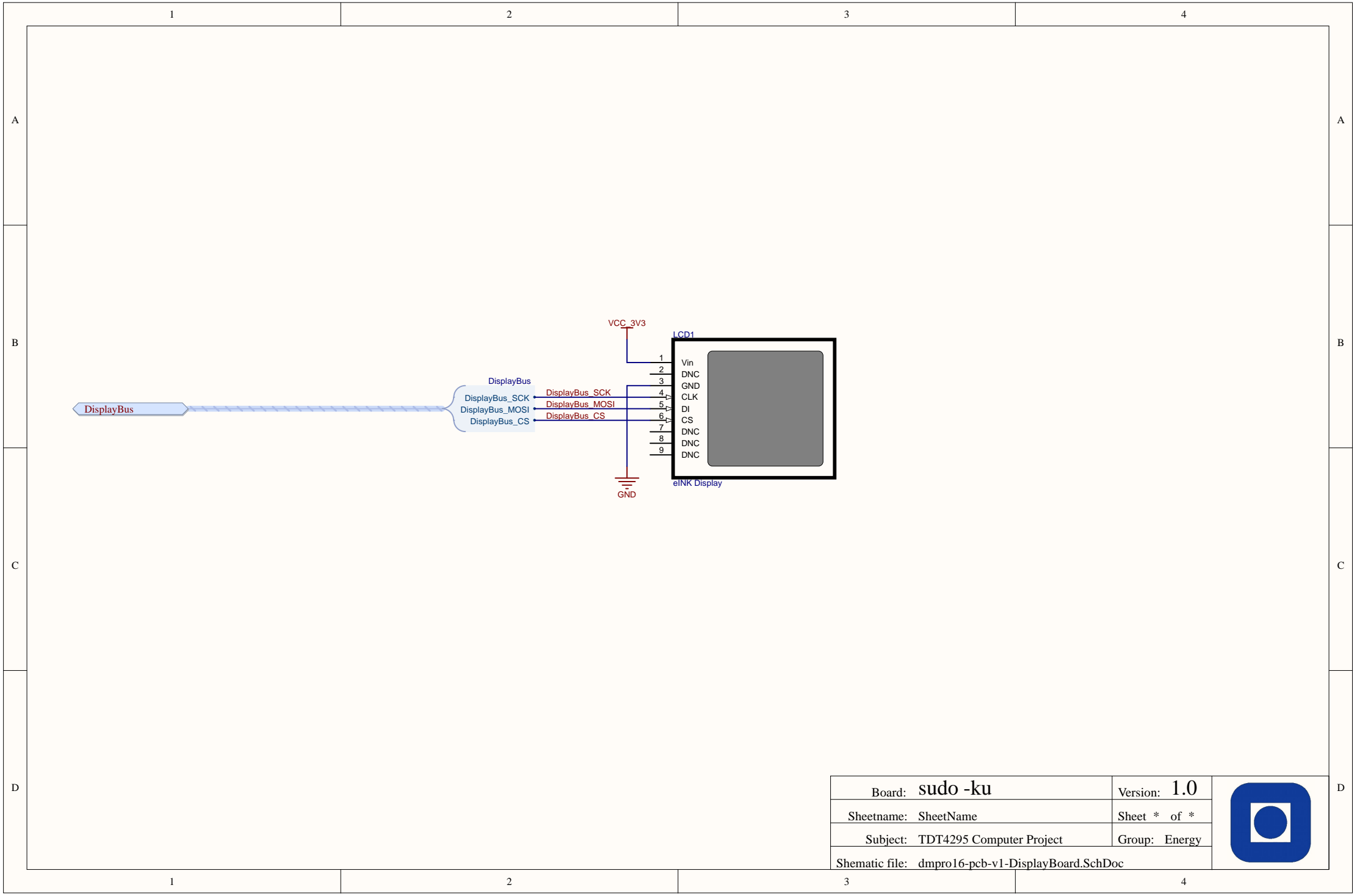
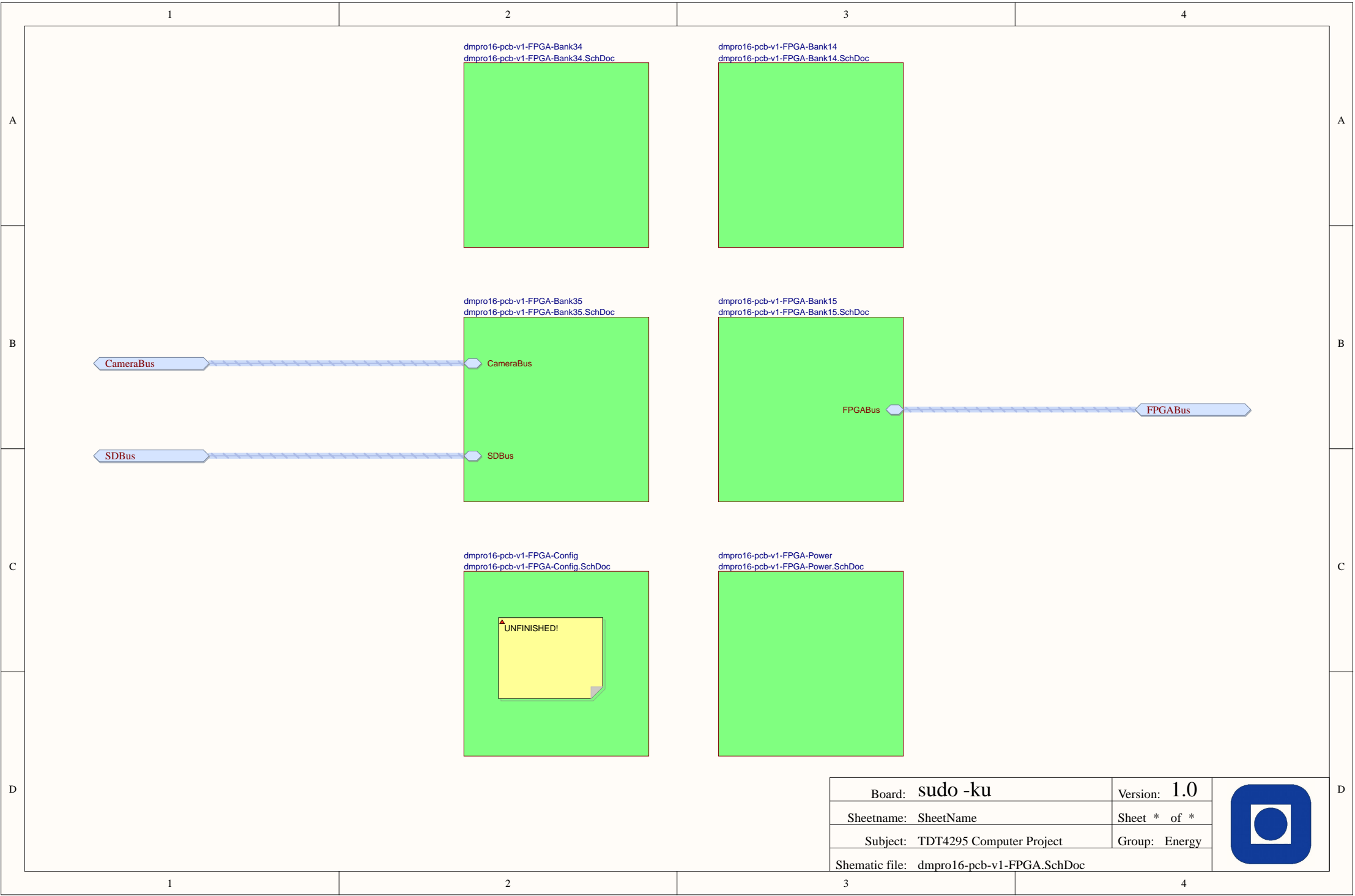


Board: sudo -ku	Version: 1.0	
Sheetname: SheetName	Sheet * of *	
Subject: TDT4295 Computer Project	Group: Energy	
Schematic file: dmpro16-pcb-v1-CameraBoard.SchDoc		

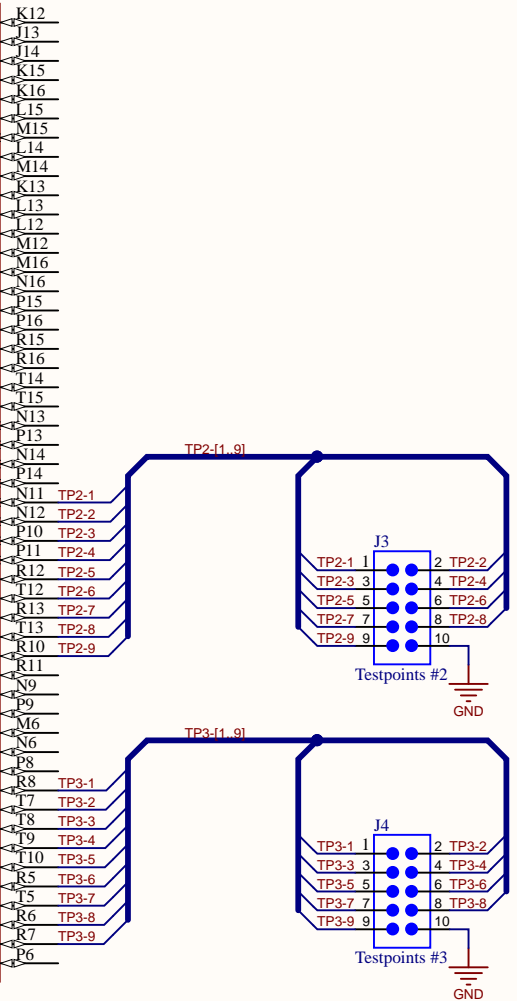





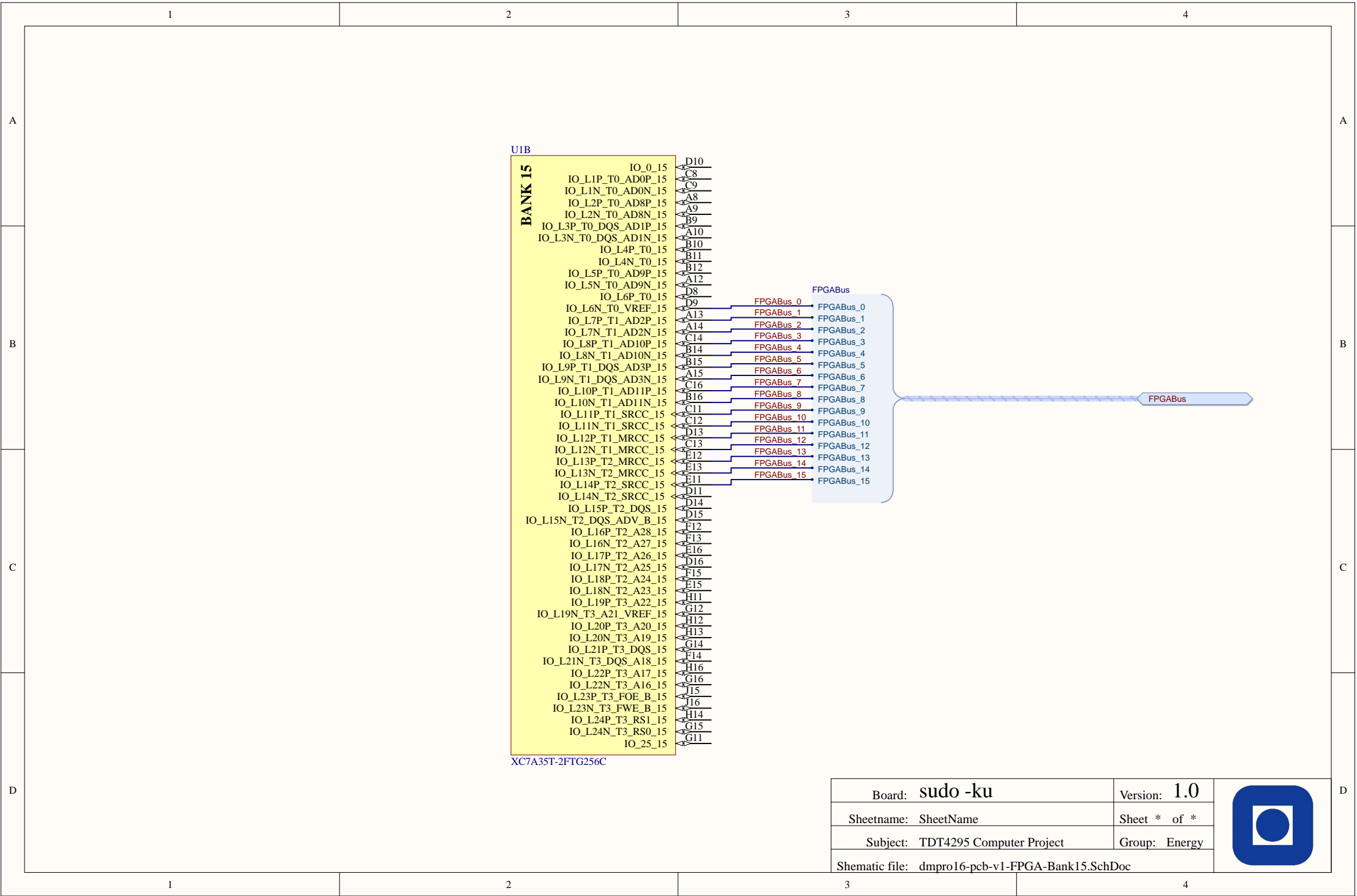
U1A

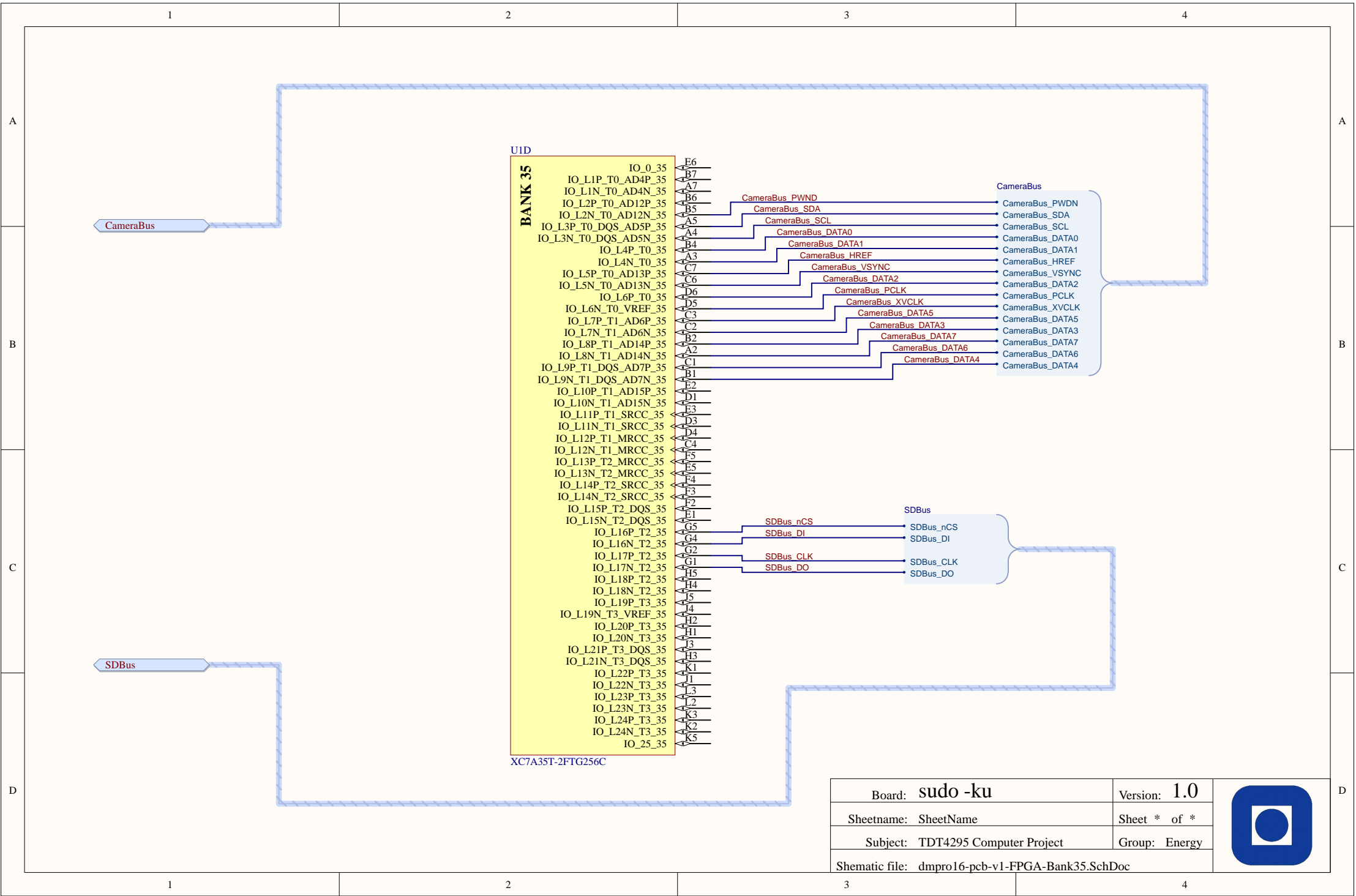
BANK 14	
IO_0_14	K12
IO_L1P_T0_D00_MOSI_14	J13
IO_L1N_T0_D01_DIN_14	J14
IO_L2P_T0_D02_14	K15
IO_L2N_T0_D03_14	K16
IO_L3P_T0_DQS_PUDC_B_14	L15
IO_L3N_T0_DQS_EMCCLK_14	M15
IO_L4P_T0_D04_14	L14
IO_L4N_T0_D05_14	M14
IO_L5P_T0_D06_14	K13
IO_L5N_T0_D07_14	L13
IO_L6P_T0_FCS_B_14	L12
IO_L6N_T0_D08_VREF_14	M12
IO_L7P_T1_D09_14	M16
IO_L7N_T1_D10_14	N16
IO_L8P_T1_D11_14	P15
IO_L8N_T1_D12_14	P16
IO_L9P_T1_DQS_14	R15
IO_L9N_T1_DQS_D13_14	R16
IO_L10P_T1_D14_14	T14
IO_L10N_T1_D15_14	T15
IO_L11P_T1_SRCC_14	N13
IO_L11N_T1_SRCC_14	P13
IO_L12P_T1_MRCC_14	N14
IO_L12N_T1_MRCC_14	P14
IO_L13P_T2_MRCC_14	N11
IO_L13N_T2_MRCC_14	N12
IO_L14P_T2_SRCC_14	P10
IO_L14N_T2_SRCC_14	P11
IO_L15P_T2_DQS_RDWR_B_14	R12
IO_L15N_T2_DQS_DOUT_CSO_B_14	T12
IO_L16P_T2_CSI_B_14	R13
IO_L16N_T2_A15_D31_14	T13
IO_L17P_T2_A14_D30_14	R10
IO_L17N_T2_A13_D29_14	R11
IO_L18P_T2_A12_D28_14	N9
IO_L18N_T2_A11_D27_14	P9
IO_L19P_T3_A10_D26_14	M6
IO_L19N_T3_A09_D25_VREF_14	N6
IO_L20P_T3_A08_D24_14	P8
IO_L20N_T3_A07_D23_14	R8
IO_L21P_T3_DQS_14	T7
IO_L21N_T3_DQS_A06_D22_14	T8
IO_L22P_T3_A05_D21_14	T9
IO_L22N_T3_A04_D20_14	T10
IO_L23P_T3_A03_D19_14	R5
IO_L23N_T3_A02_D18_14	T5
IO_L24P_T3_A01_D17_14	R6
IO_L24N_T3_A00_D16_14	R7
IO_25_14	P6

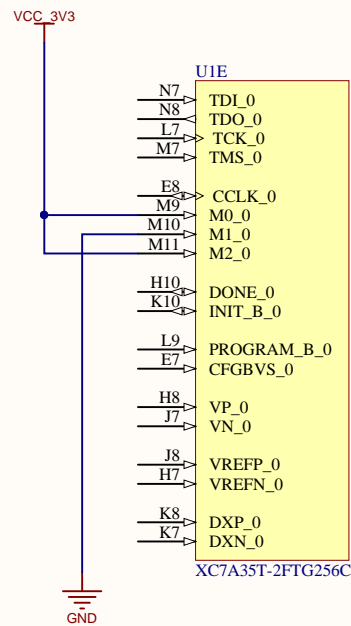
XC7A35T-2FTG256C



Board: sudo -ku	Version: 1.0	
Sheetname: SheetName	Sheet * of *	
Subject: TDT4295 Computer Project	Group: Energy	
Schematic file: dmp16-pcb-v1-FPGA-Bank14.SchDoc		



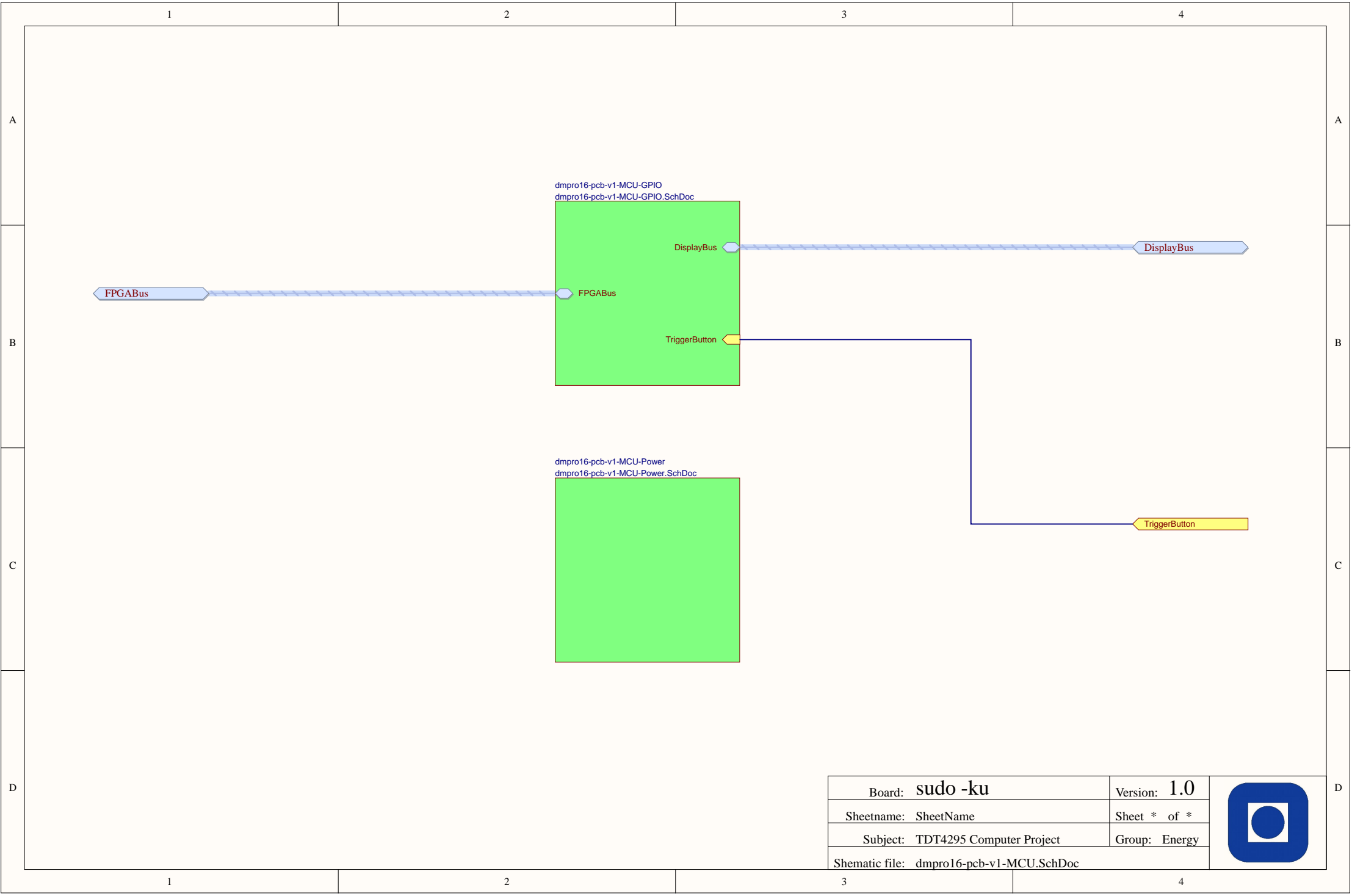




How to hook up programming interface etc.???

Board: sudo -ku	Version: 1.0	
Sheetname: SheetName	Sheet * of *	
Subject: TDT4295 Computer Project	Group: Energy	
Schematic file: dmpro16-pcb-v1-FPGA-Config.SchDoc		





A

B

C

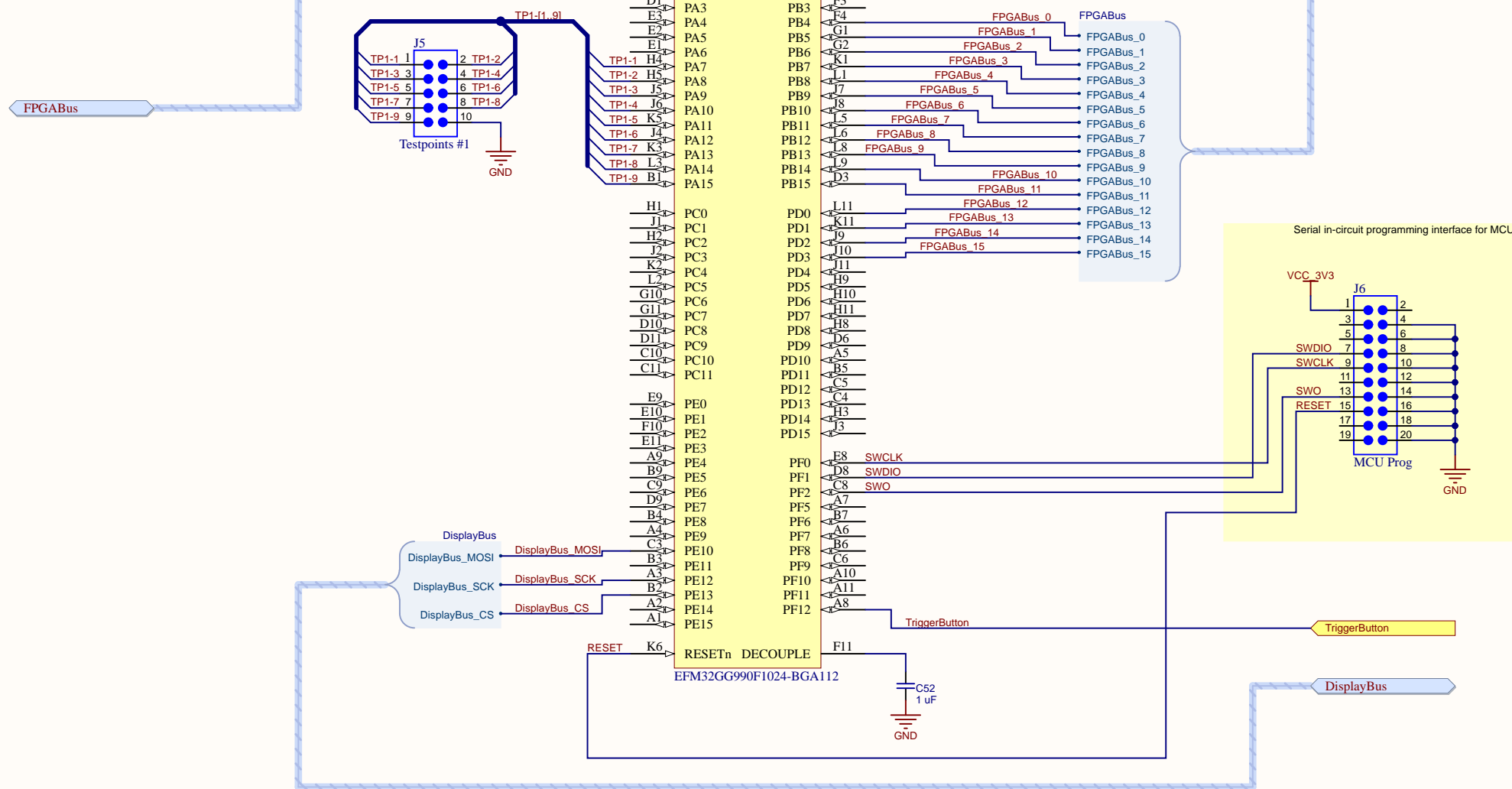
D

A

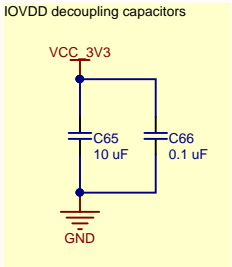
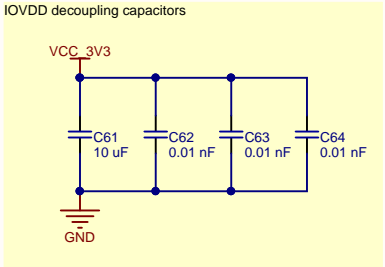
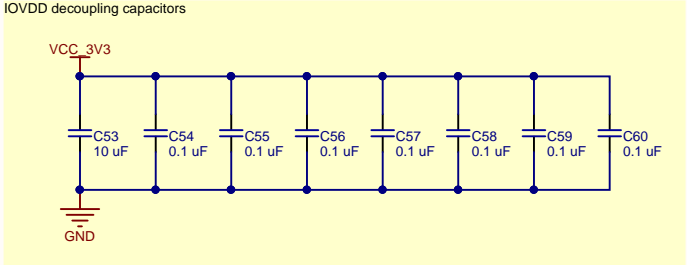
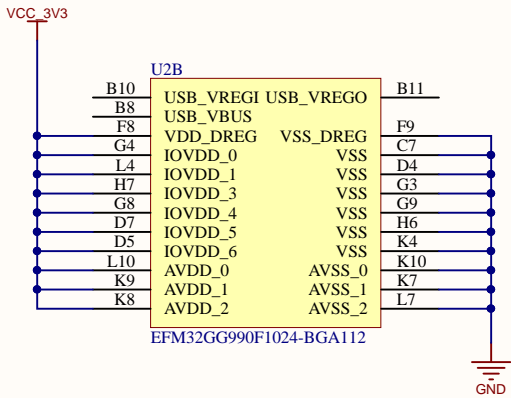
B

C

D

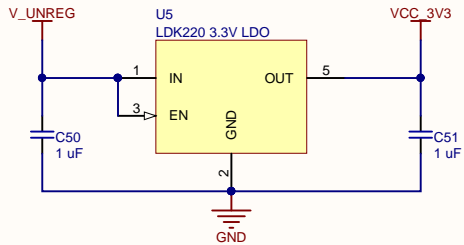
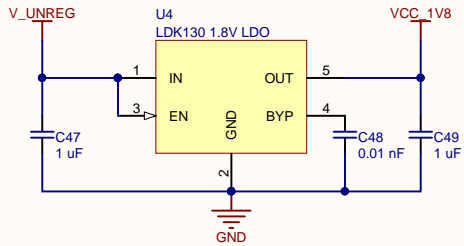
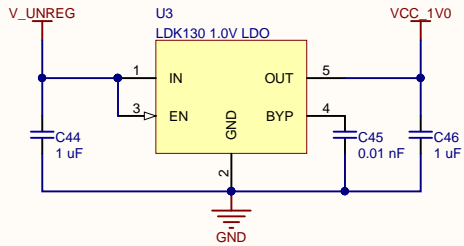


Board: sudo -ku	Version: 1.0	
Sheetname: SheetName	Sheet * of *	
Subject: TDT4295 Computer Project	Group: Energy	
Schematic file: dmpro16-pcb-v1-MCU-GPIO.SchDoc		

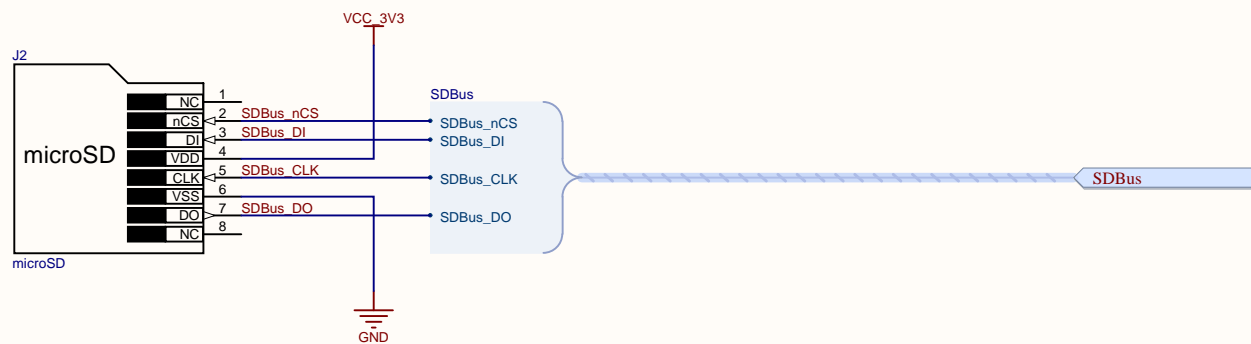



Board: sudo -ku	Version: 1.0	
Sheetname: SheetName	Sheet * of *	
Subject: TDT4295 Computer Project	Group: Energy	
Schematic file: dmp16-pcb-v1-MCU-Power.SchDoc		

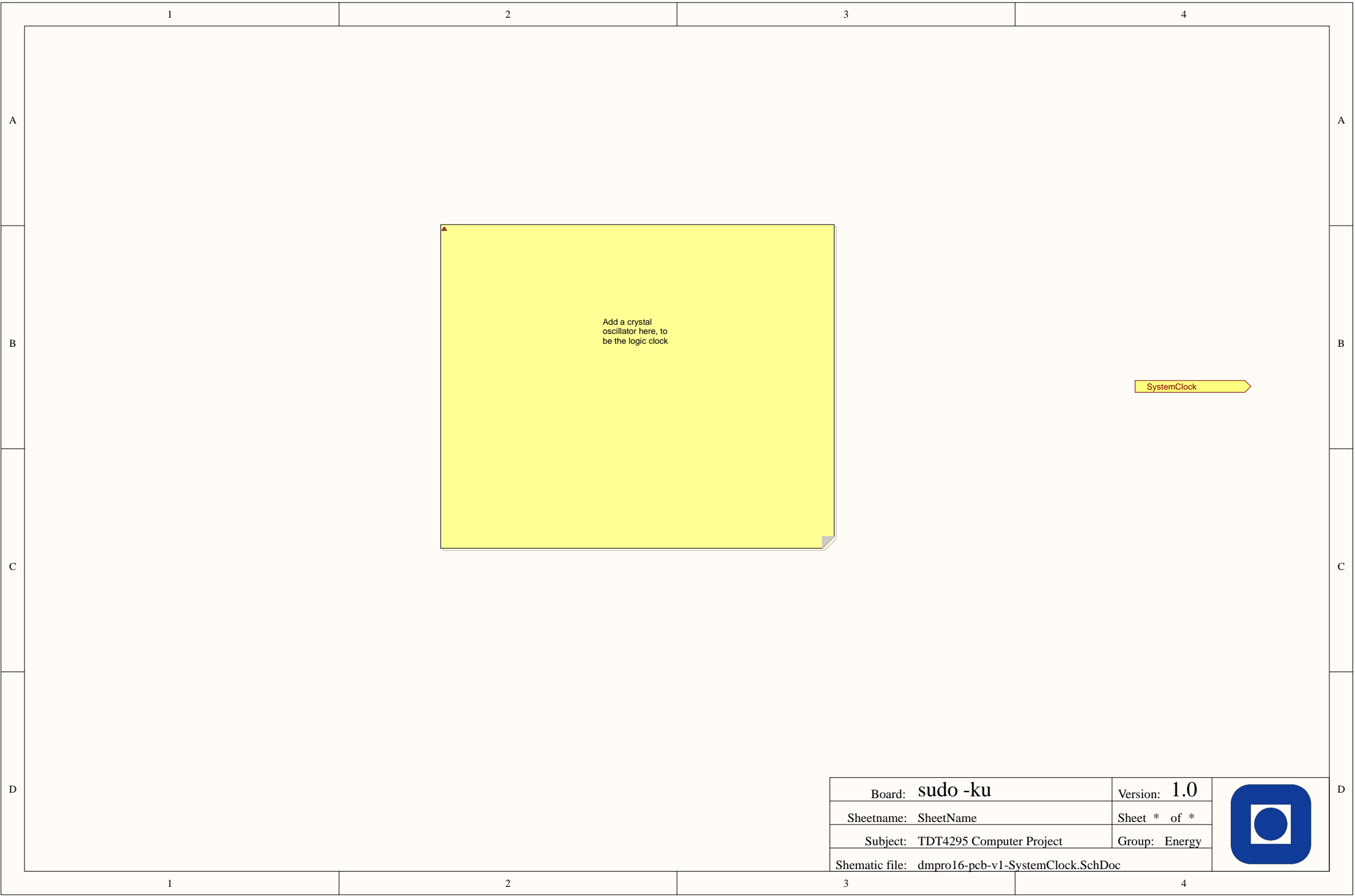
Need some way of connecting a battery to the voltage regulators. Will 4 AAA cells suffice?



Board: sudo -ku	Version: 1.0	
Sheetname: SheetName	Sheet * of *	
Subject: TDT4295 Computer Project	Group: Energy	
Schematic file: dmpro16-pcb-v1-PowerSupply.SchDoc		



Board: sudo -ku	Version: 1.0	
Sheetname: SheetName	Sheet * of *	
Subject: TDT4295 Computer Project	Group: Energy	
Schematic file: dmpro16-pcb-v1-SDcard.SchDoc		

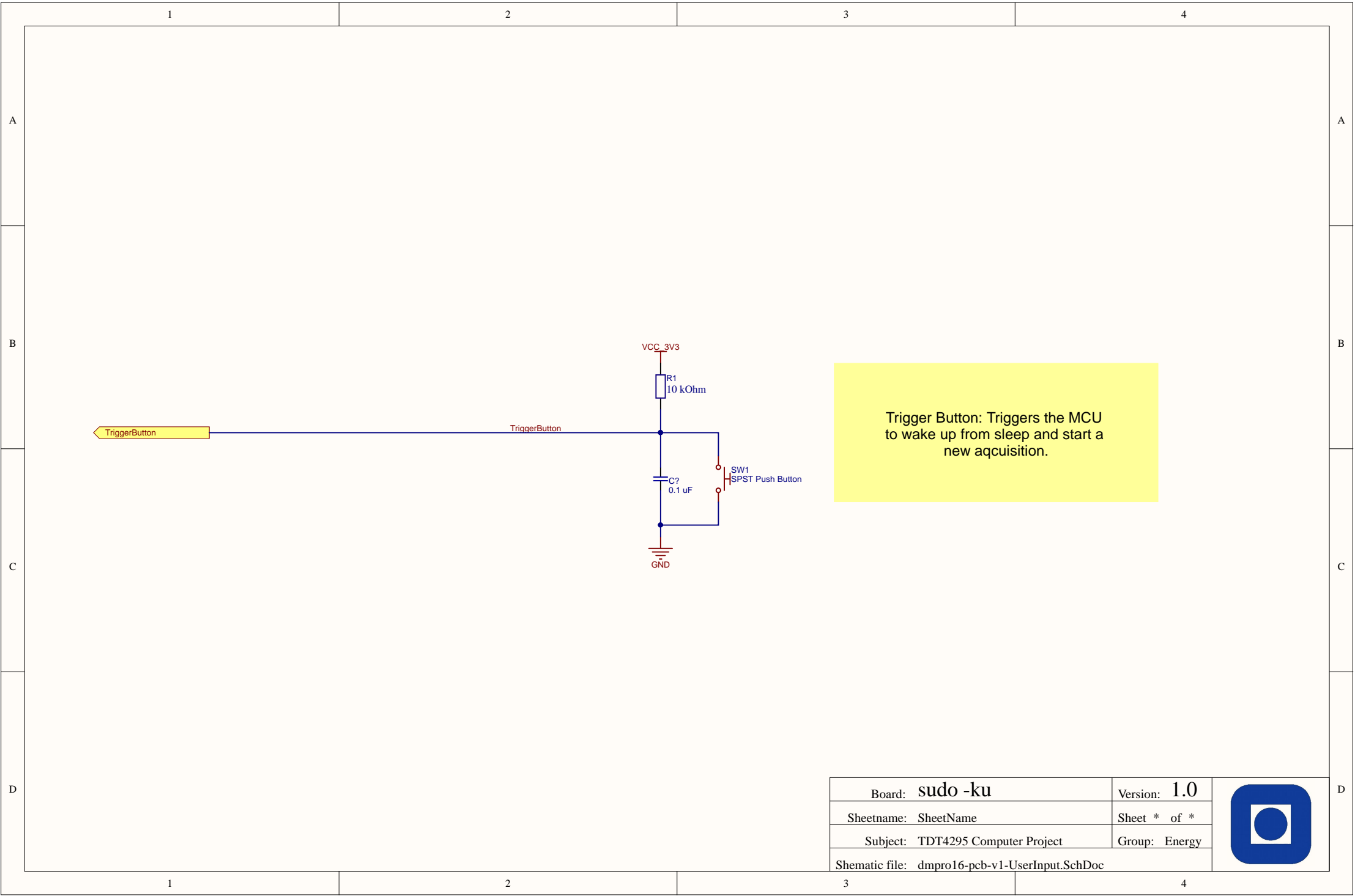


Add a crystal oscillator here, to be the logic clock

SystemClock


Board:	sudo -ku	Version:	1.0
Sheetname:	SheetName	Sheet	* of *
Subject:	TDT4295 Computer Project	Group:	Energy
Schematic file: dmp16-pcb-v1-SystemClock.SchDoc			





Trigger Button: Triggers the MCU to wake up from sleep and start a new acquisition.

1	2	3	4
A			A
B			B
C			C
D			D
1	2	3	4

Board: sudo -ku	Version: 1.0	
Sheetname: SheetName	Sheet * of *	
Subject: TDT4295 Computer Project	Group: Energy	
Schematic file: schematic_A4_template.SchDot		