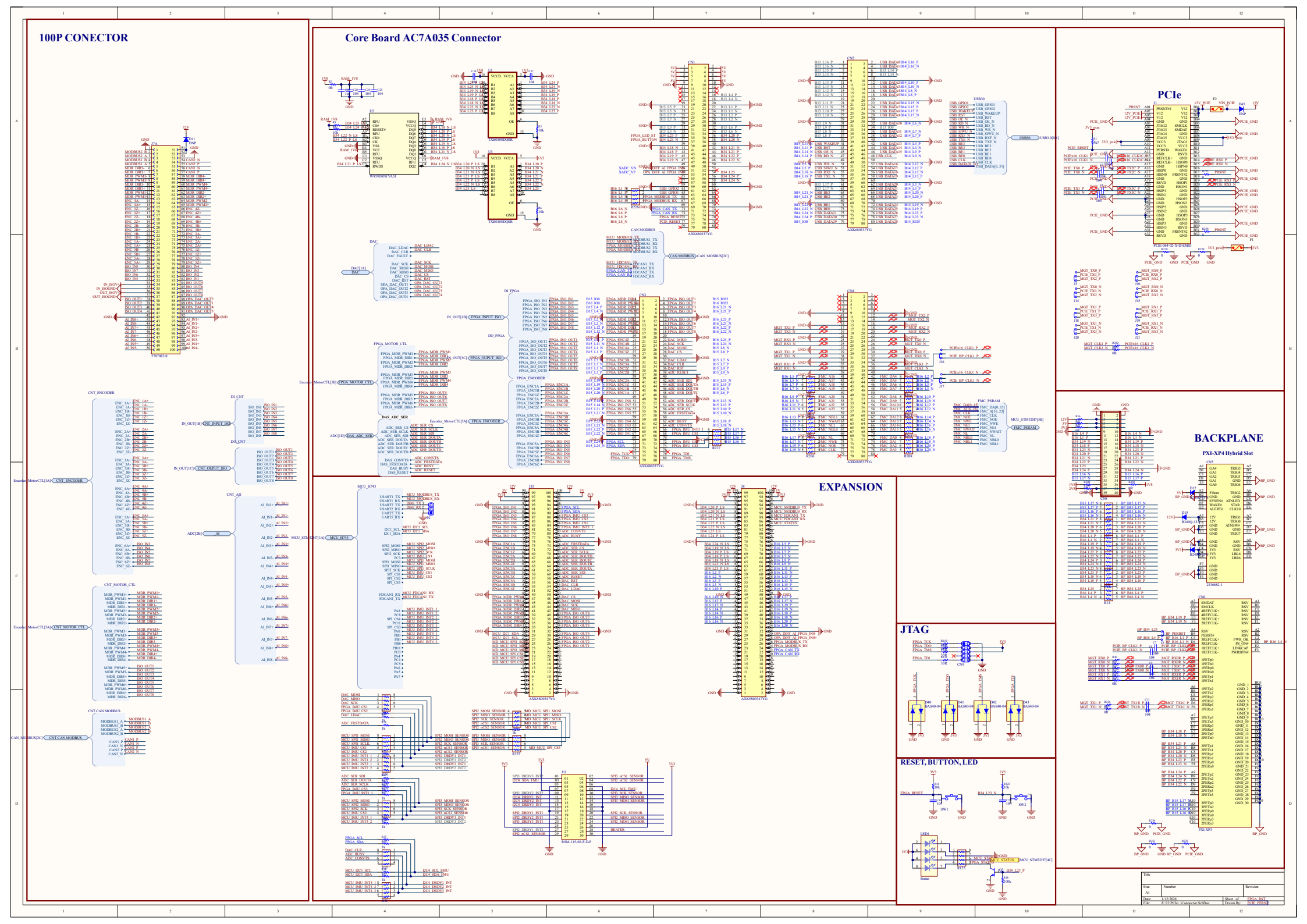
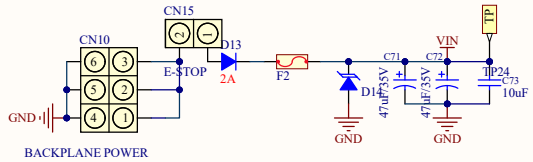
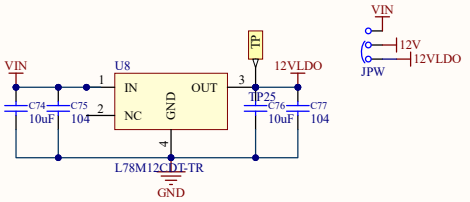
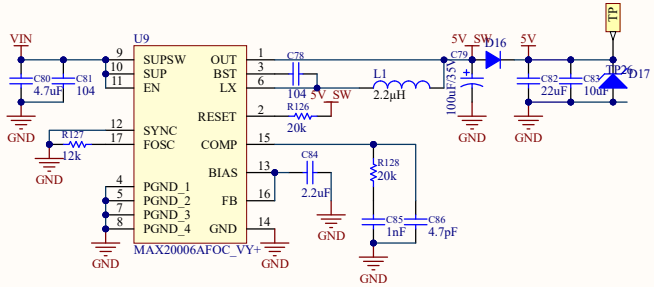
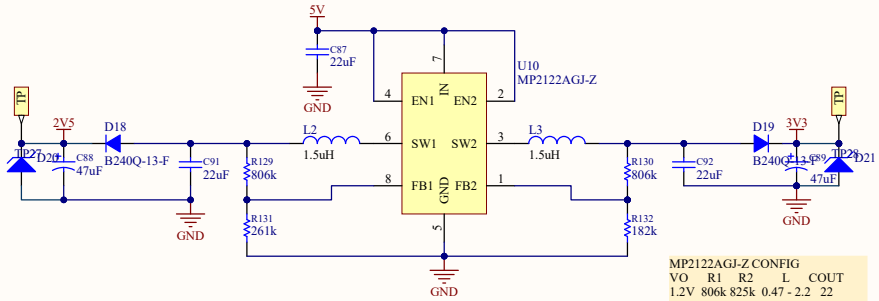

100P CONECTOR
Core Board AC7A035 Connector
PCIe
BACKPLANE
PXI-XP4 Hybrid Slot
EXPANSION
JTAG
RESET, BUTTON, LED
CNT_ENCODER
CNT_MOTOR_CTL
CNT_CAN MODBUS
DI_CNT
DO_CNT
CNT_AI
DAC
CAN MODBUS
FPGA_MOTOR_CTL
DI_FPGA
DO_FPGA
FPGA_ENCODER
DAS_ADC_SER
MCU H743
FMC_PSRAM
Title
Size
A1
Number
Revision
Date:
1/12/2026
Sheet of
FPGA_BS1
File:
E:\22.PCIe_Connector.SchDoc
Drawn By:
PCIE_FPGA



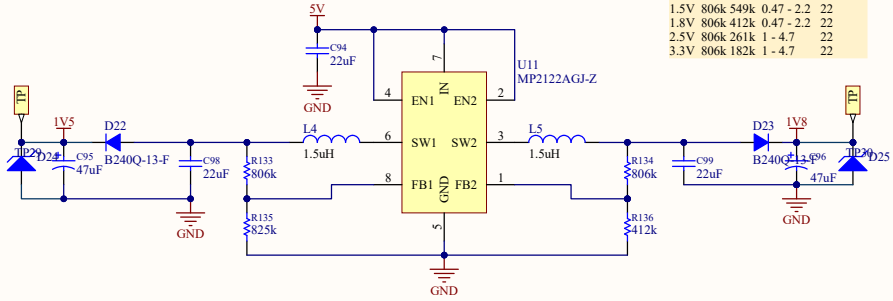




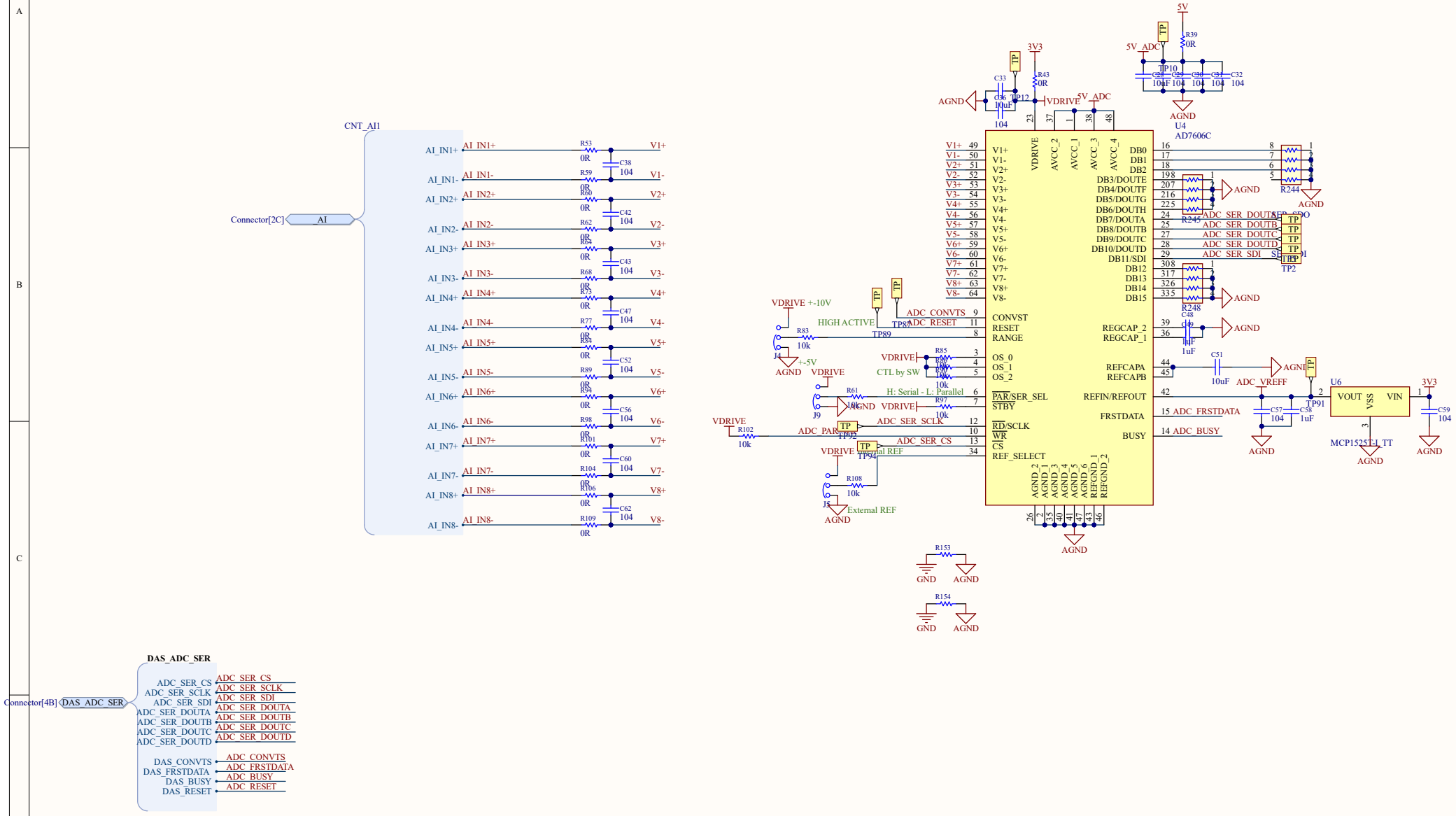


MP2122AGJ-Z CONFIG

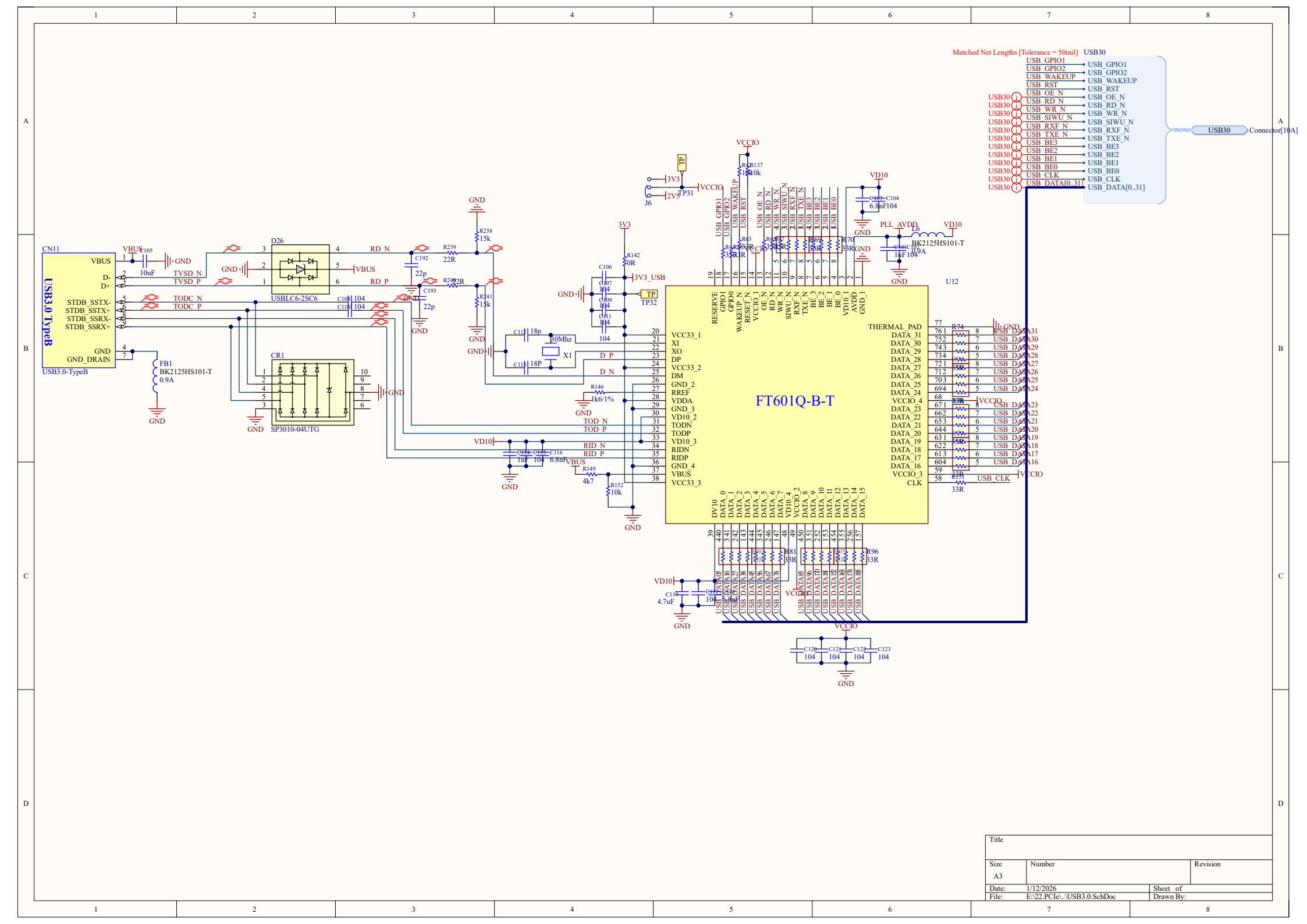
VO	R1	R2	L	COUT
1.2V	806k	825k	0.47 - 2.2	22
1.5V	806k	549k	0.47 - 2.2	22
1.8V	806k	412k	0.47 - 2.2	22
2.5V	806k	261k	1 - 4.7	22
3.3V	806k	182k	1 - 4.7	22

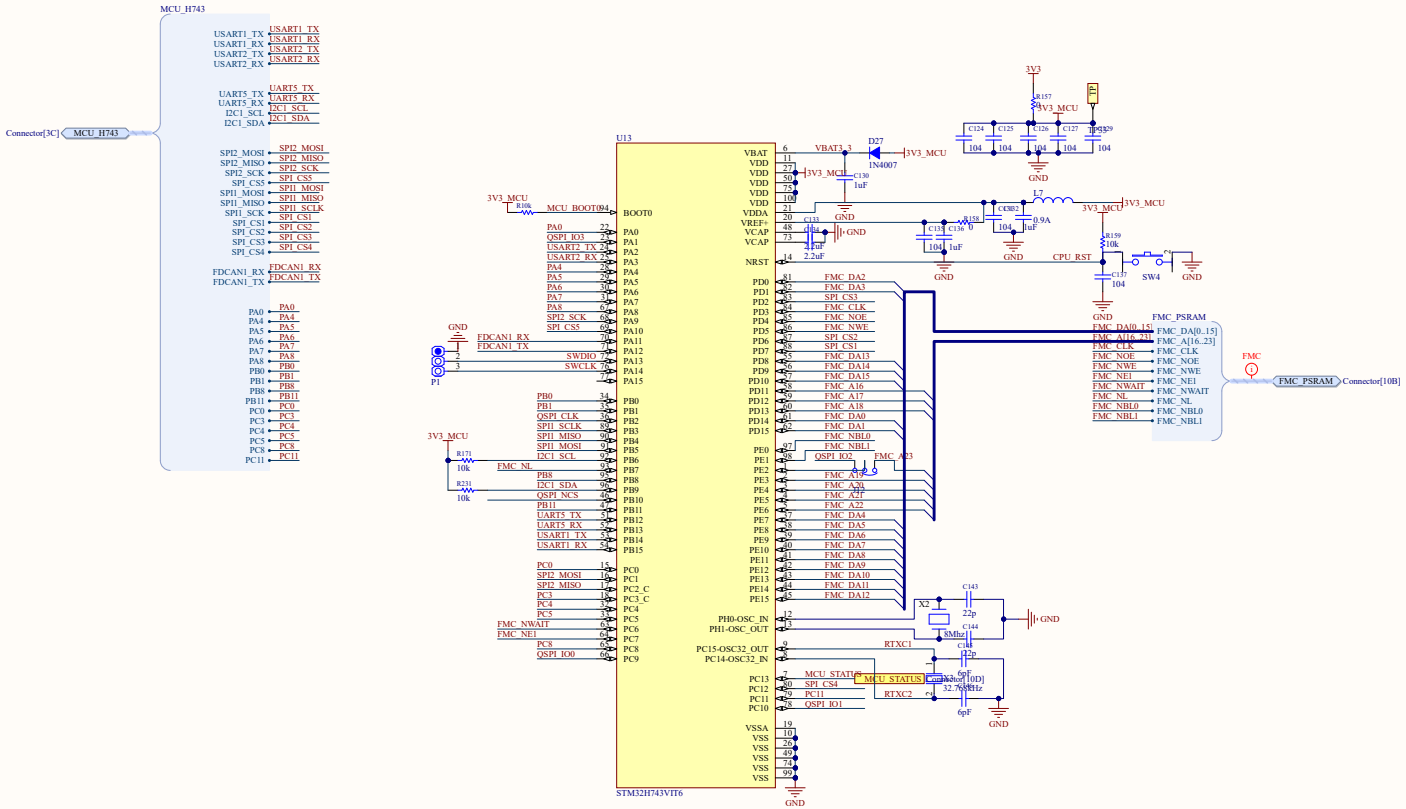


Title		
Size: A3	Number	Revision
Date: 1/12/2026		Sheet of
File: E:\22.PCIe\..\Power.SchDoc		Drawn By:

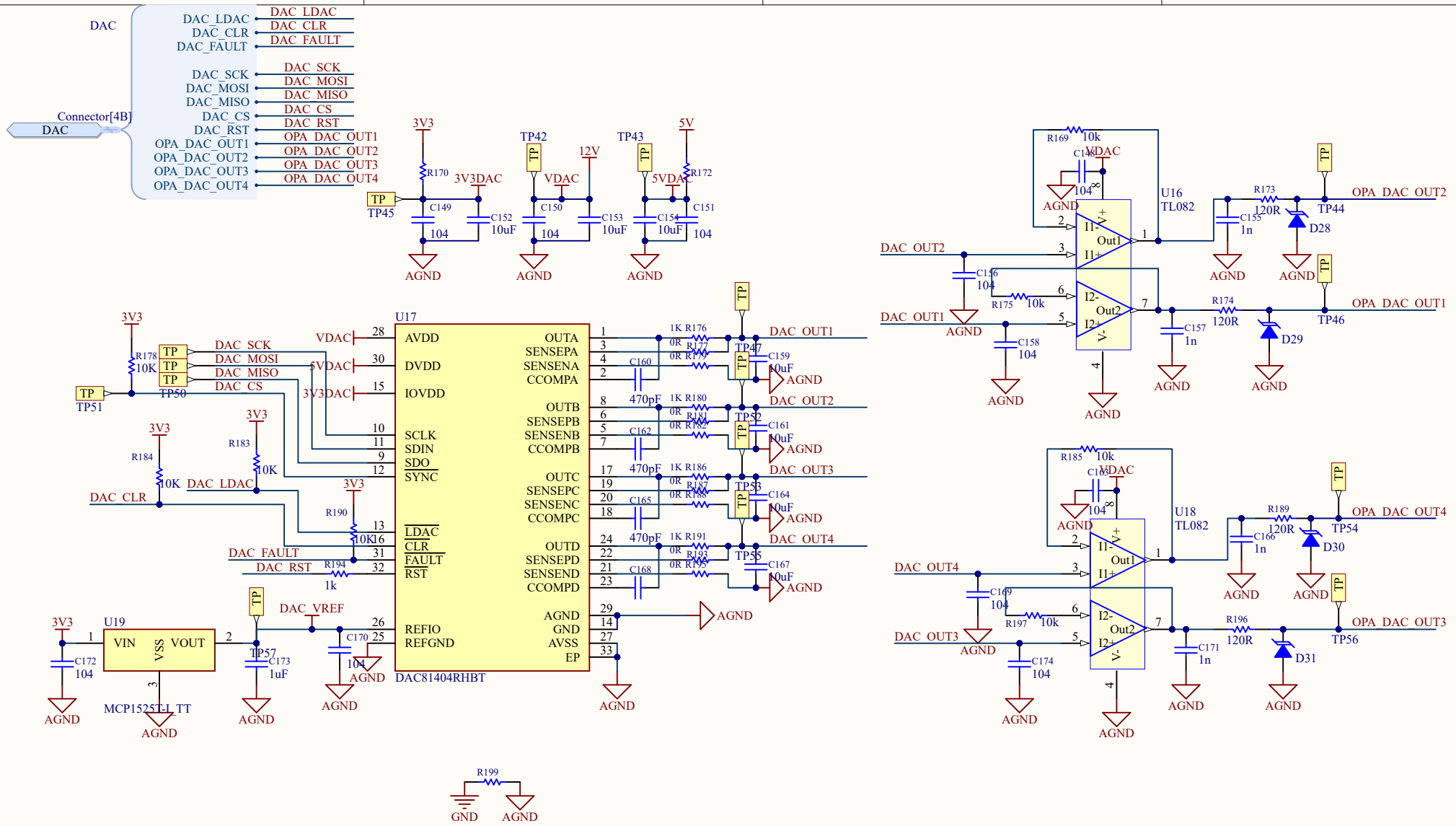


Title		
Size: A3	Number	Revision
Date: 1/12/2026	Sheet of	
File: E:\22.PCIe\3.PCB\Rev2.0\20B\ADC.SchDoc	Drawn By:	

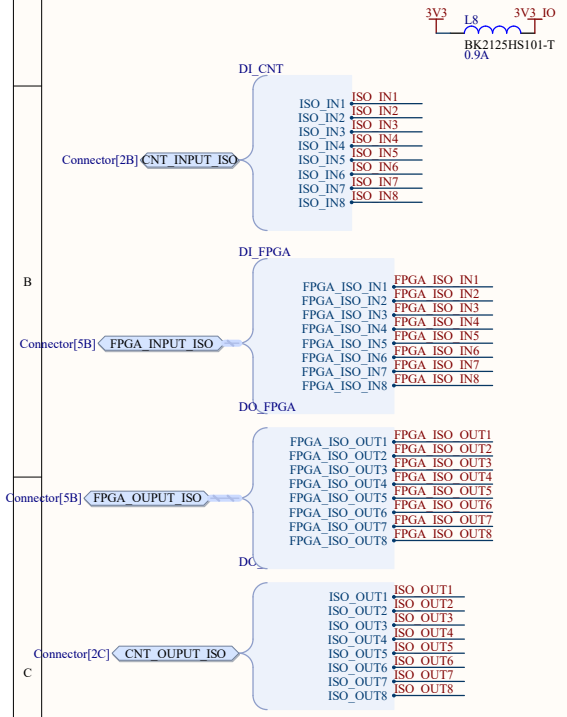

Matched Net Lengths [Tolerance = 50mil] USB30
USB30 Connector[10A]
CN11
USB3.0 TypeB
USB3.0-TypeB
USBLC6-2SC6
SP3010-04UTG
FT601Q-B-T
U12
BK2125HS101-T
0.9A
30Mhz
X1
THERMAL_PAD
Title
Size
A3
Number
Revision
Date: 1/12/2026
File: E:\22.PCIe\..\USB3.0.SchDoc
Sheet of
Drawn By:



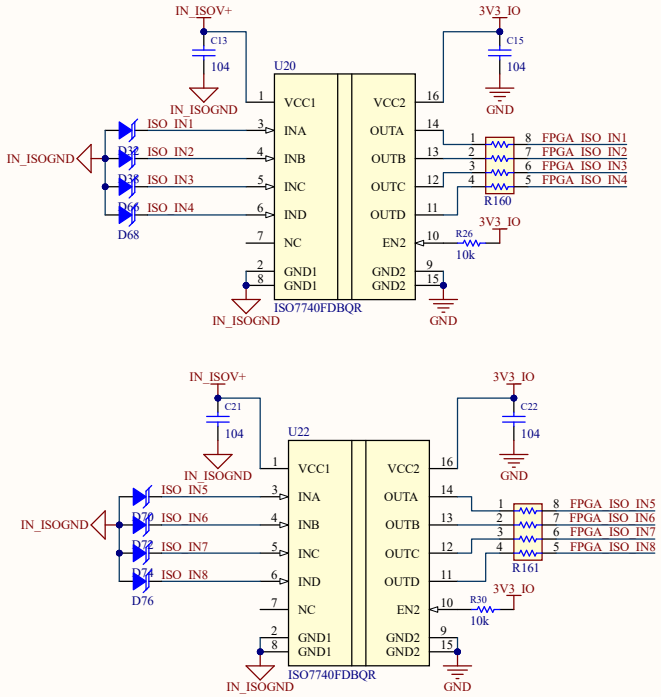
Title			
Size	Number		Revision
A2			
Date:	1/12/2026	Sheet of	
File:	E:\22.PCIe\..\MCU_STM32H7.SchDoc	Drawn By:	



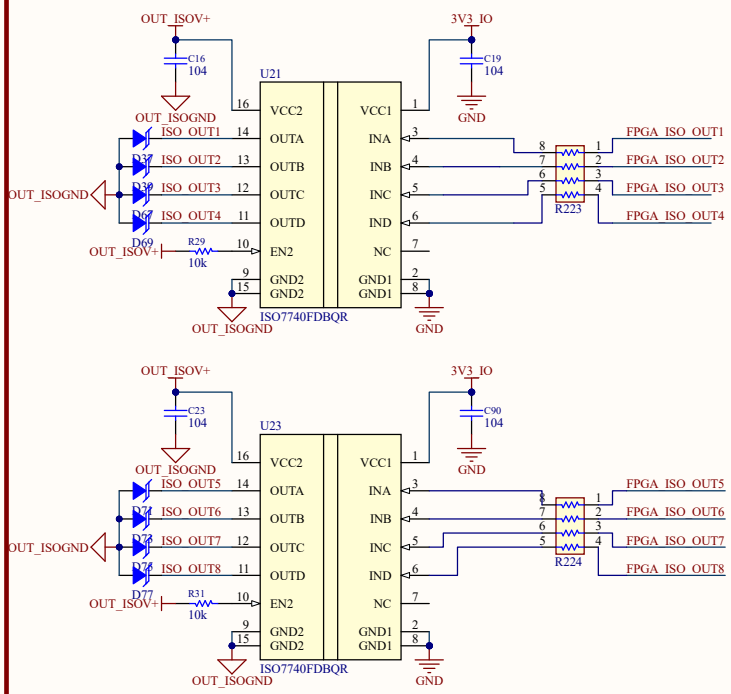
Title		
Size: A4	Number	Revision
Date: 1/12/2026	Sheet of	
File: E:\22.PCIe\3.PCB\Rev2.0\20B\DAC.SchDoc	Drawn By:	



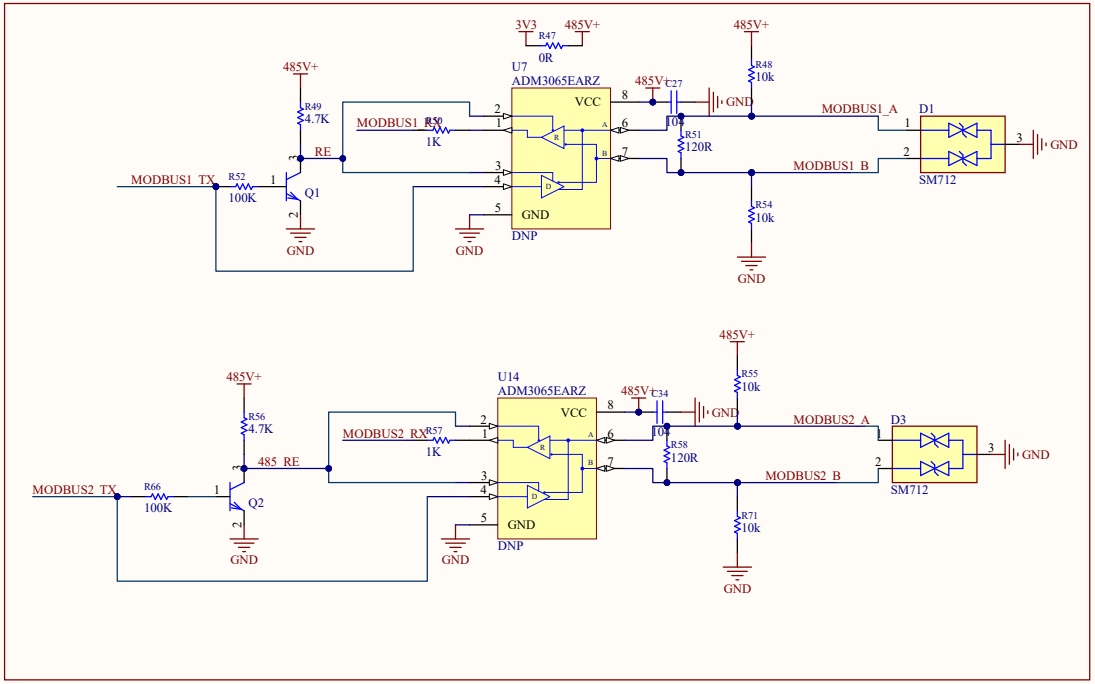
INPUT

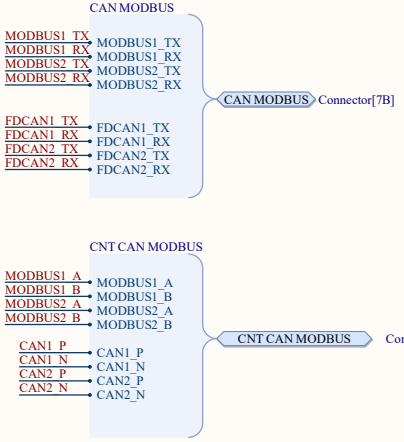


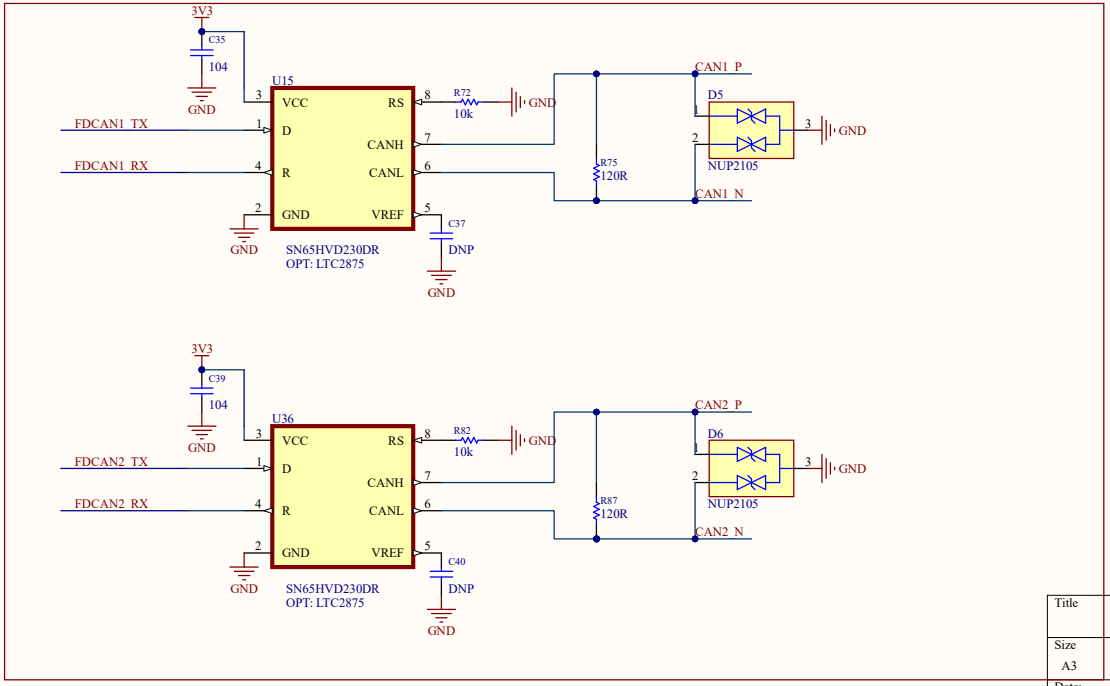
OUTPUT



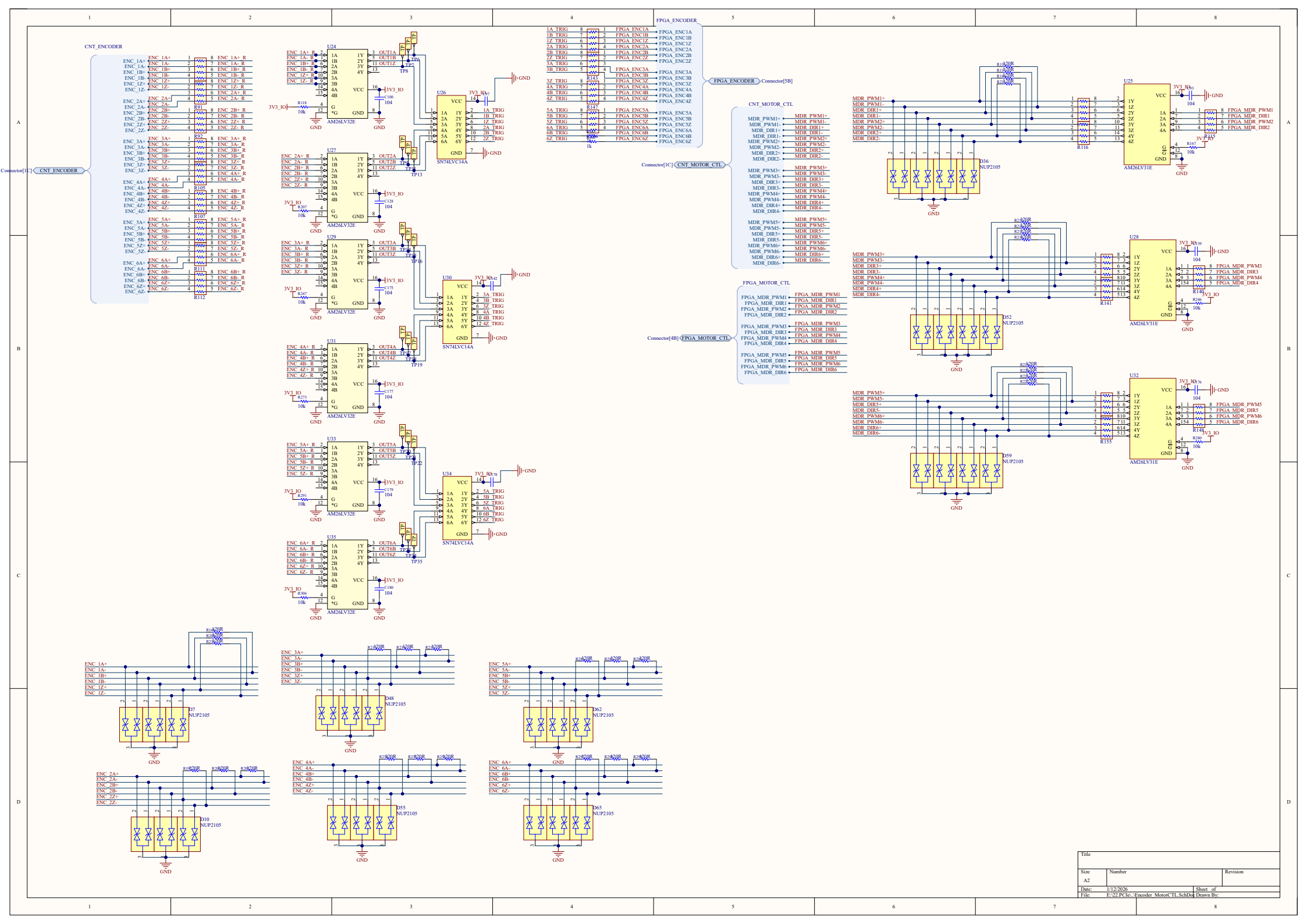
Title		
Size: A3	Number	Revision
Date: 1/12/2026		Sheet of
File: E:\22.PCIe\..\IN_OUT.SchDoc		Drawn By:







Title			
Size A3	Number	Revision	
Date: 1/12/2026		Sheet of	
File: E:\22.PCIe\..\CAN_MOSBUS.SchDoc		Drawn By:	


CNT_ENCODER
Connector[1C]
FPGA_ENCODER
Connector[5B]
CNT_MOTOR_CTL
Connector[1C]
FPGA_MOTOR_CTL
Connector[4B]
U24
U25
U26
U27
U28
U29
U30
U31
U32
U33
U34
U35
AM26LV32E
AM26LV31E
SN74LVC14A
D7 NUP2105
D10 NUP2105
D36 NUP2105
D48 NUP2105
D52 NUP2105
D55 NUP2105
D59 NUP2105
D62 NUP2105
D65 NUP2105
GND
3V3_IO
Title
Size
A2
Number
Revision
Date: 1/12/2026
Sheet of
File: E:\22.PCIe\..\Encoder_MotorCTL_SchDoc
Drawn By: