P3737-A05

Jetson Orin Developer Kit Carrier Board

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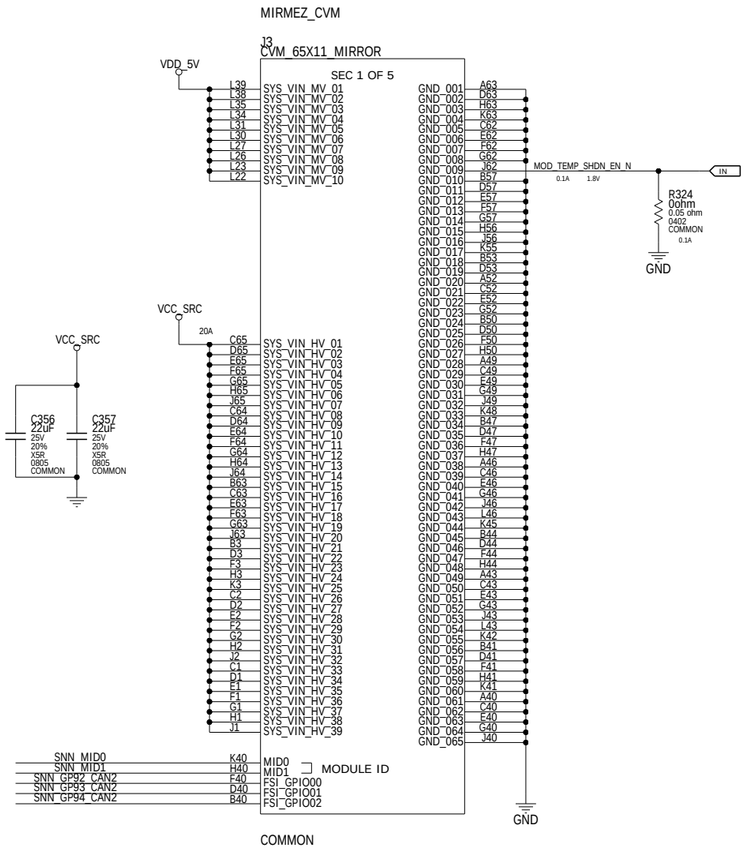
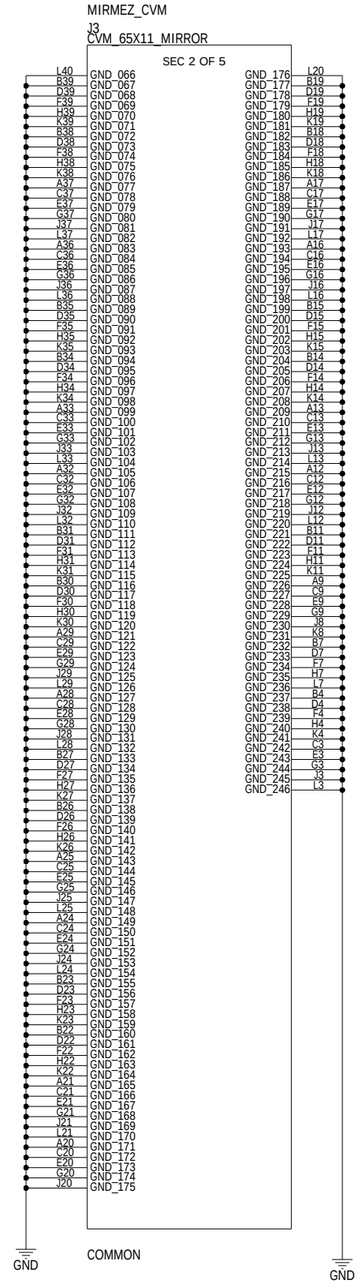
CVM CONNECTOR 1/3





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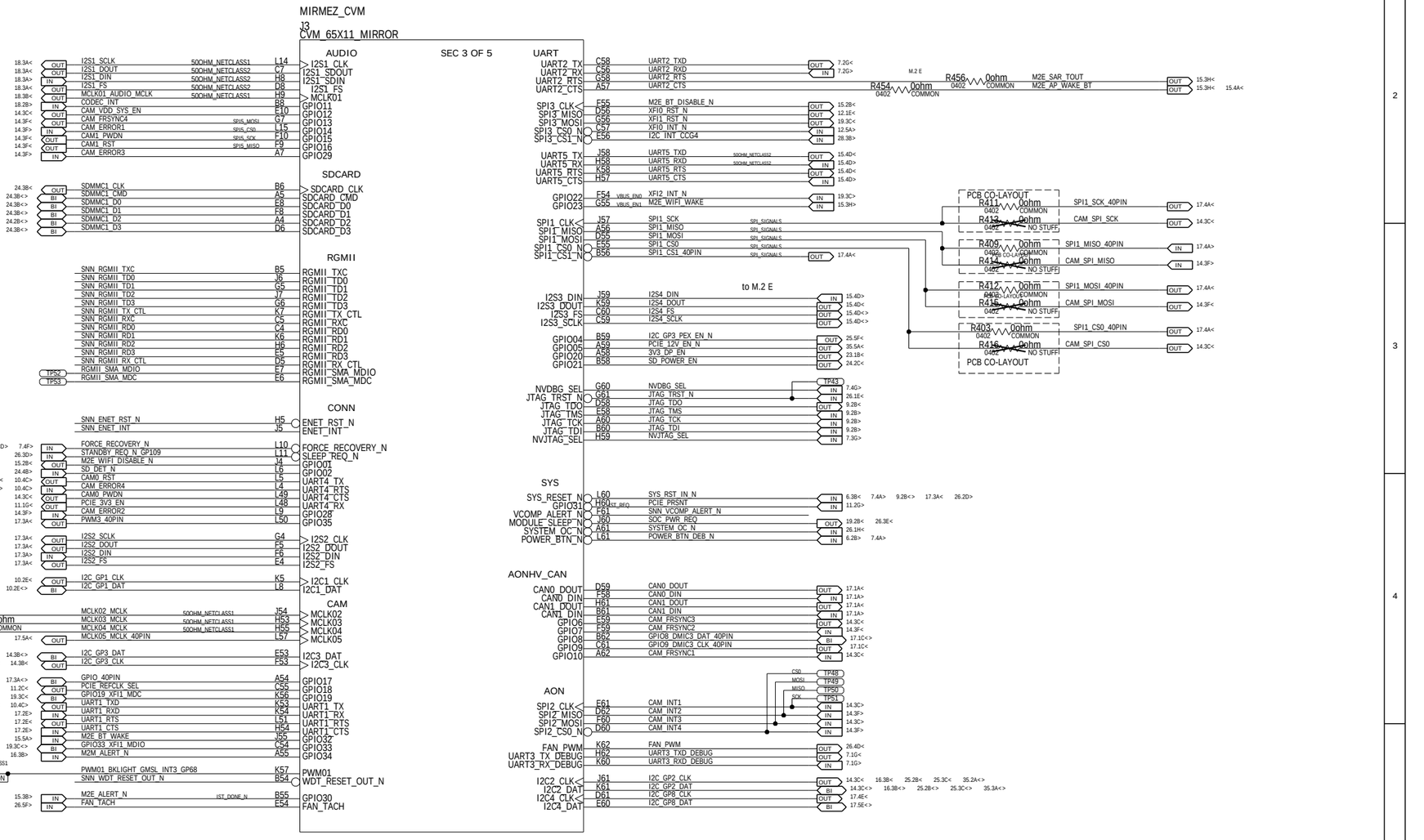
CVM CONNECTOR 2/3



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CVM CONNECTOR 3/3

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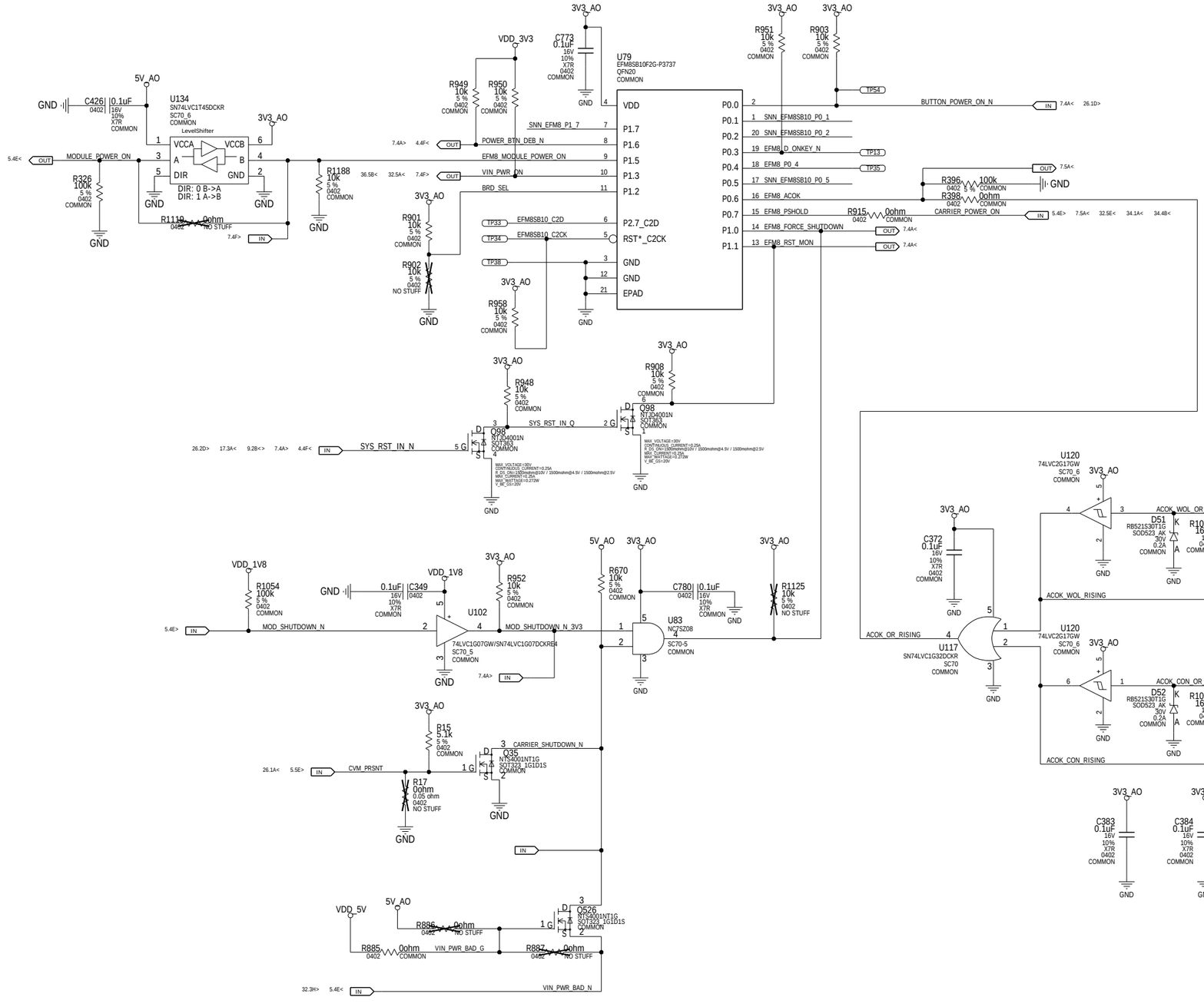
Button MCU



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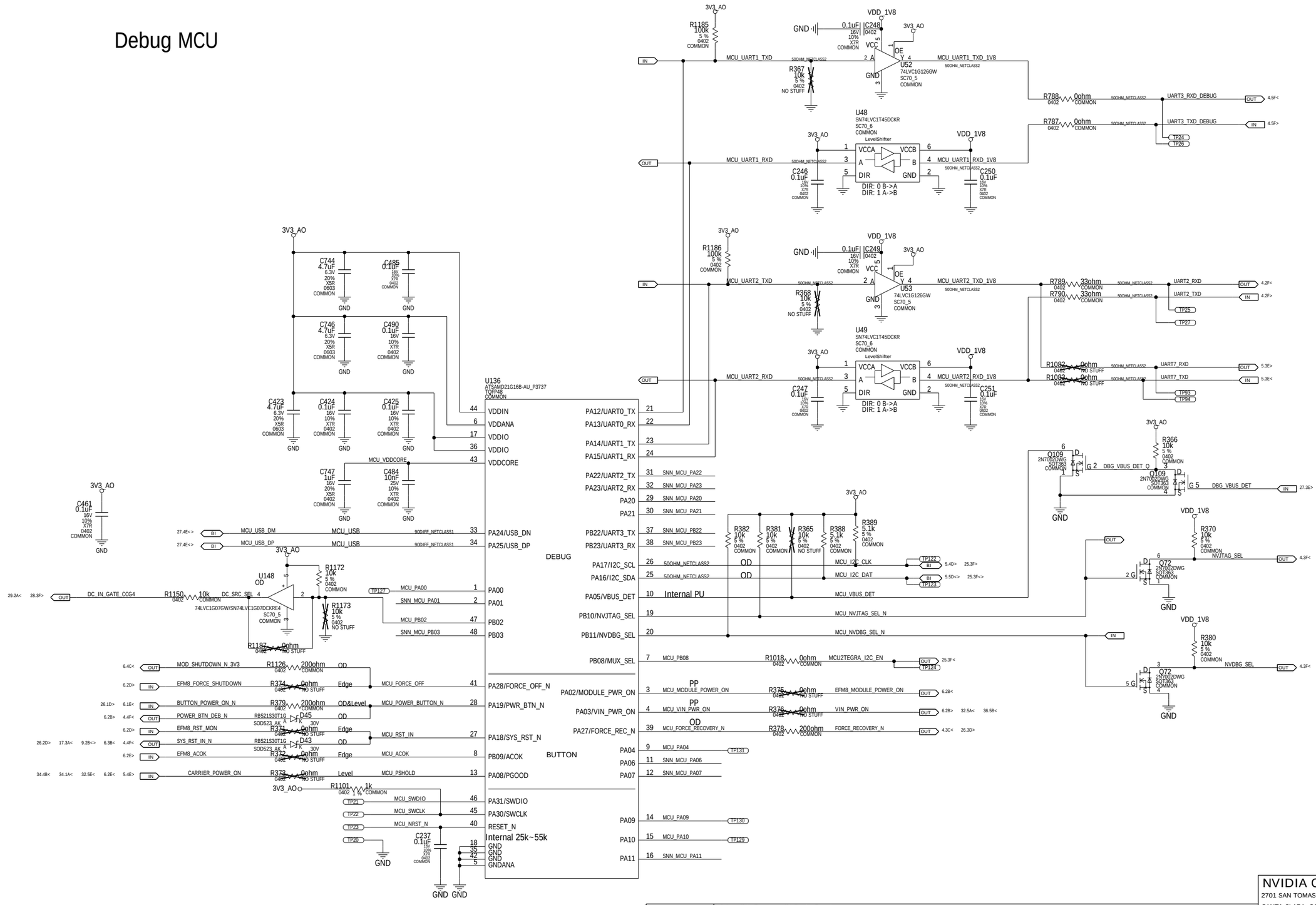
Debug MCU



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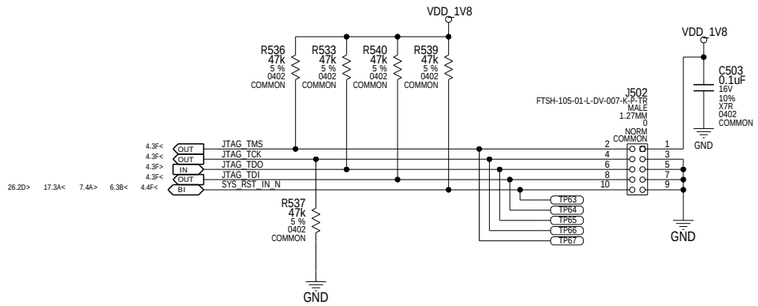
AP DEBUG CONNECTOR



JTAG

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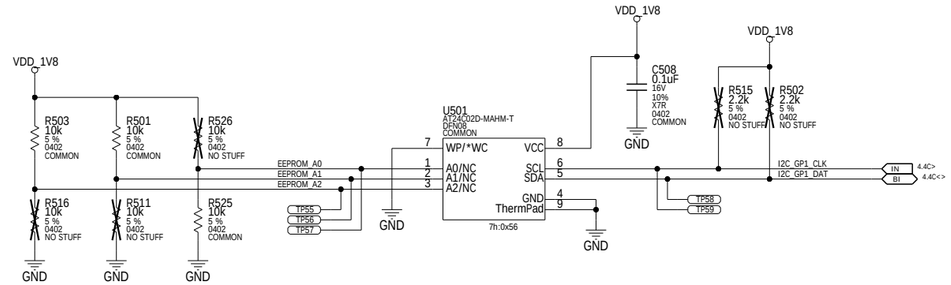
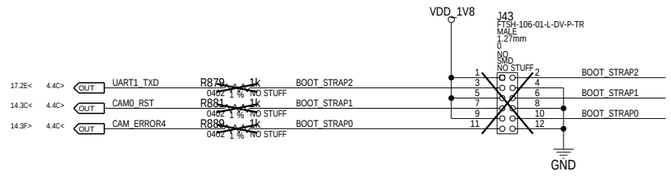
ID EEPROM





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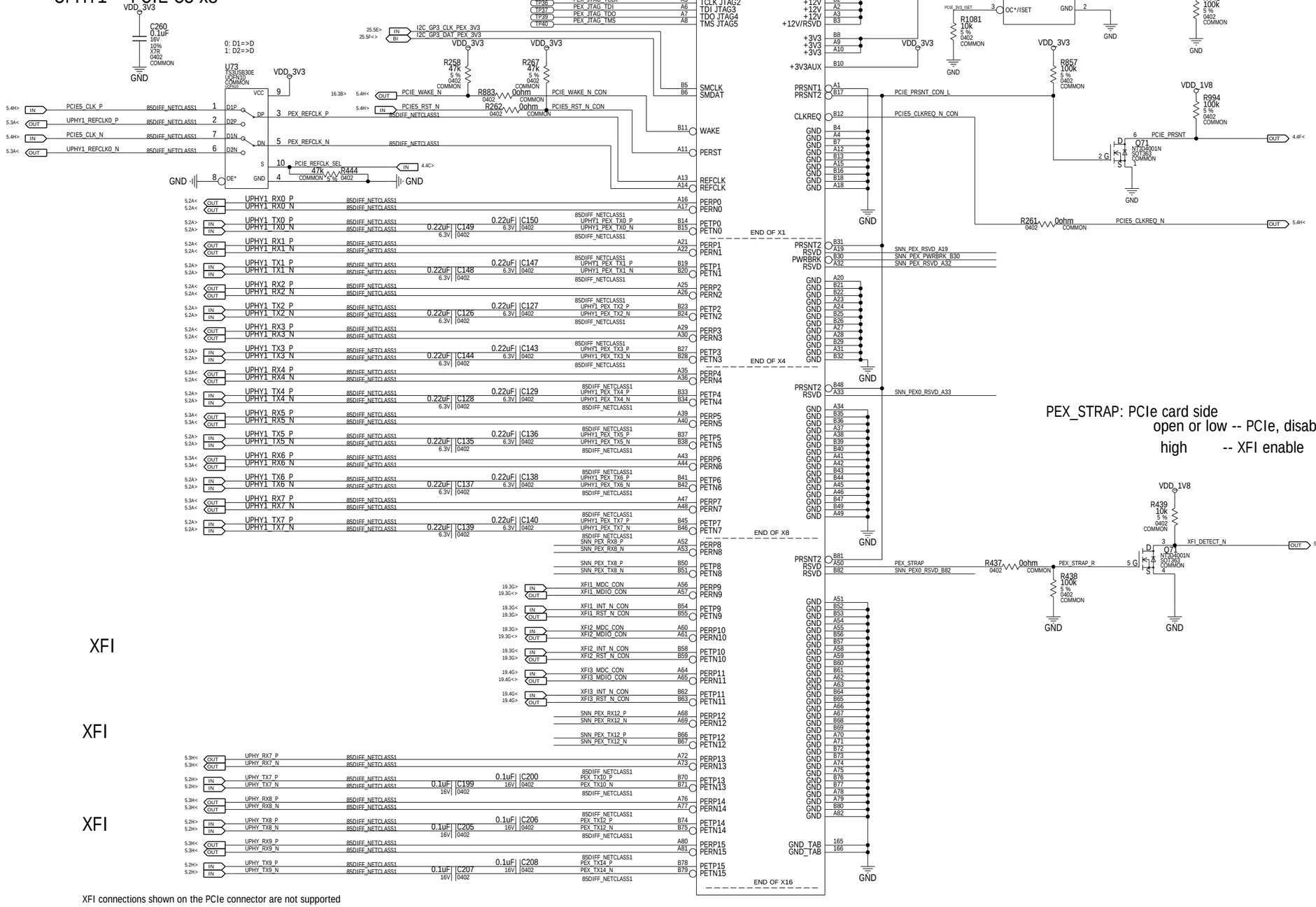
PCIe X16 Connector

UPHY1 = PCIE C5 x8



XFI

XFI

XFI

XFI connections shown on the PCIe connector are not supported

PEX_STRAP: PCIe card side
open or low -- PCIe, disable XFI
high -- XFI enable

ASSEMBLY	Jetson Orin Developer Kit Carrier Board
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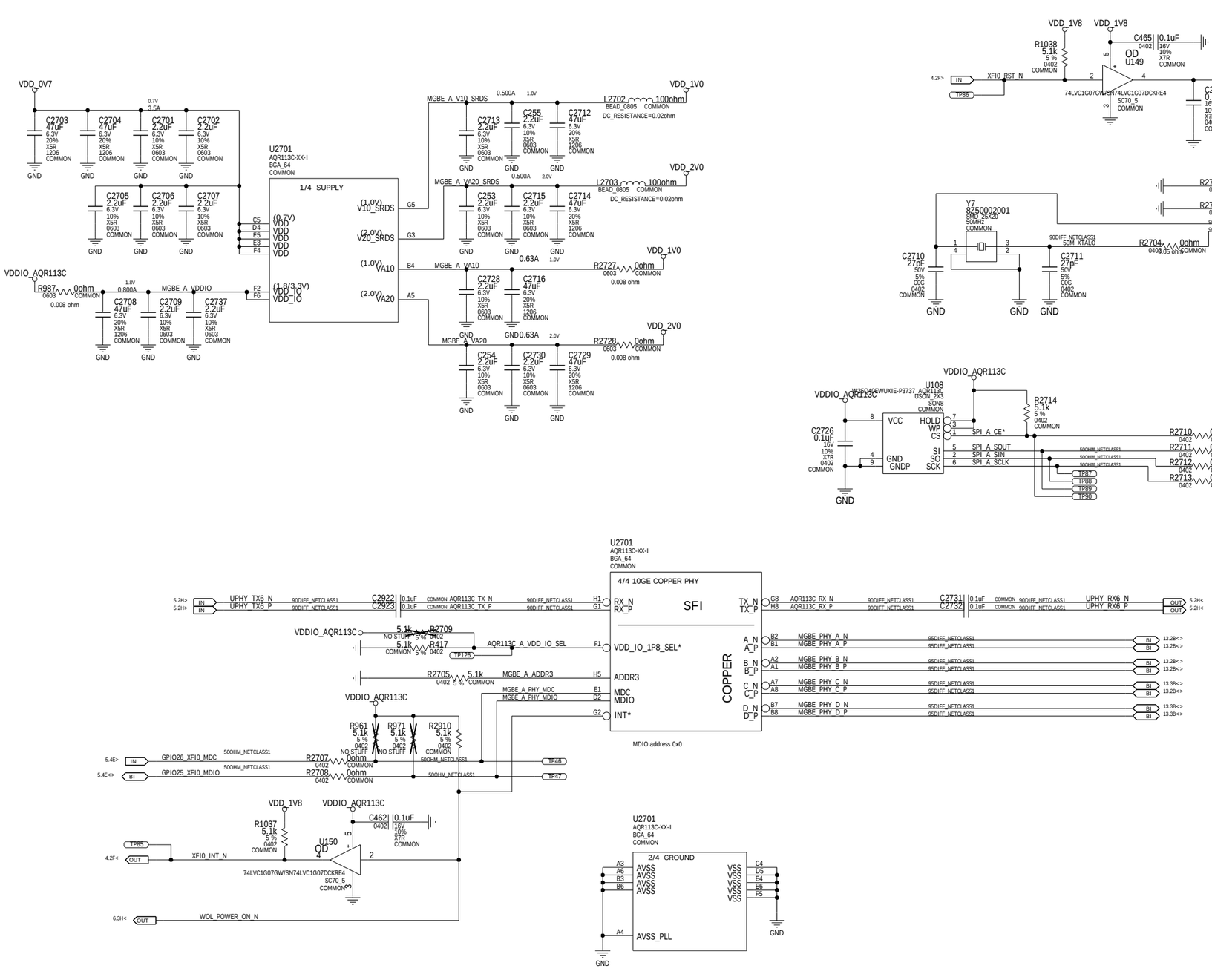
10GB ETH PHY AQR113C



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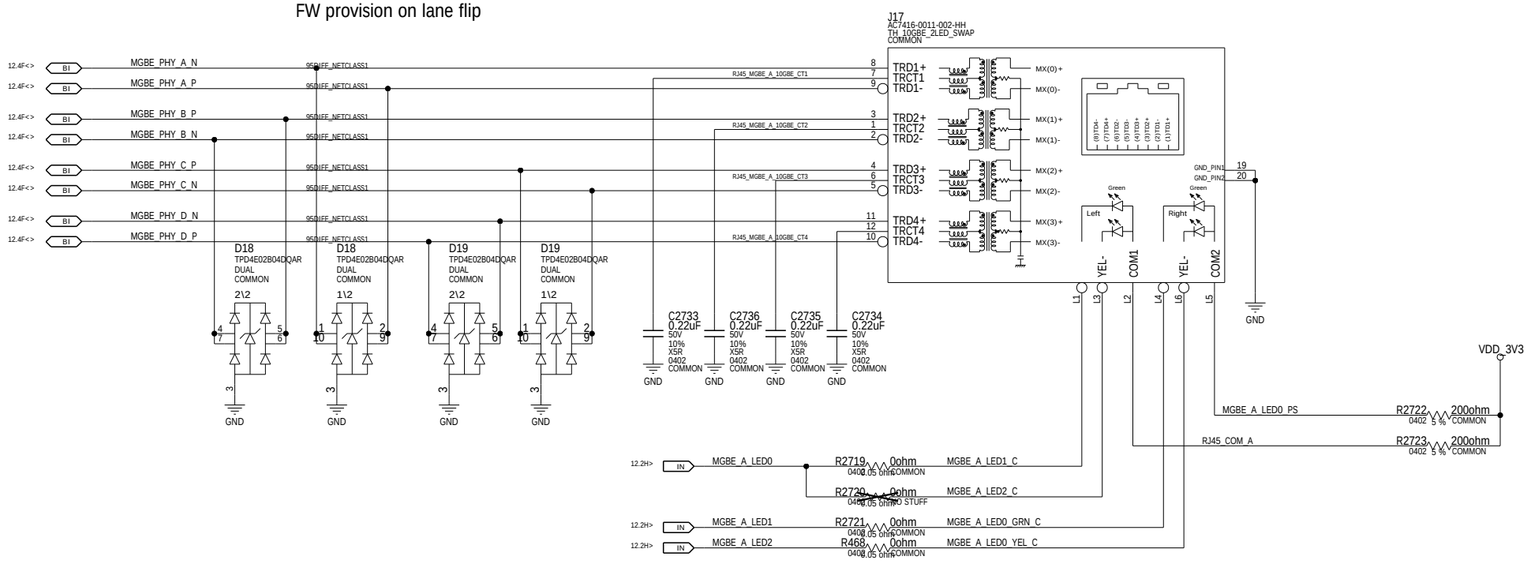
support lane flip and polarity correction

automatic P/N correction
FW provision on lane flip



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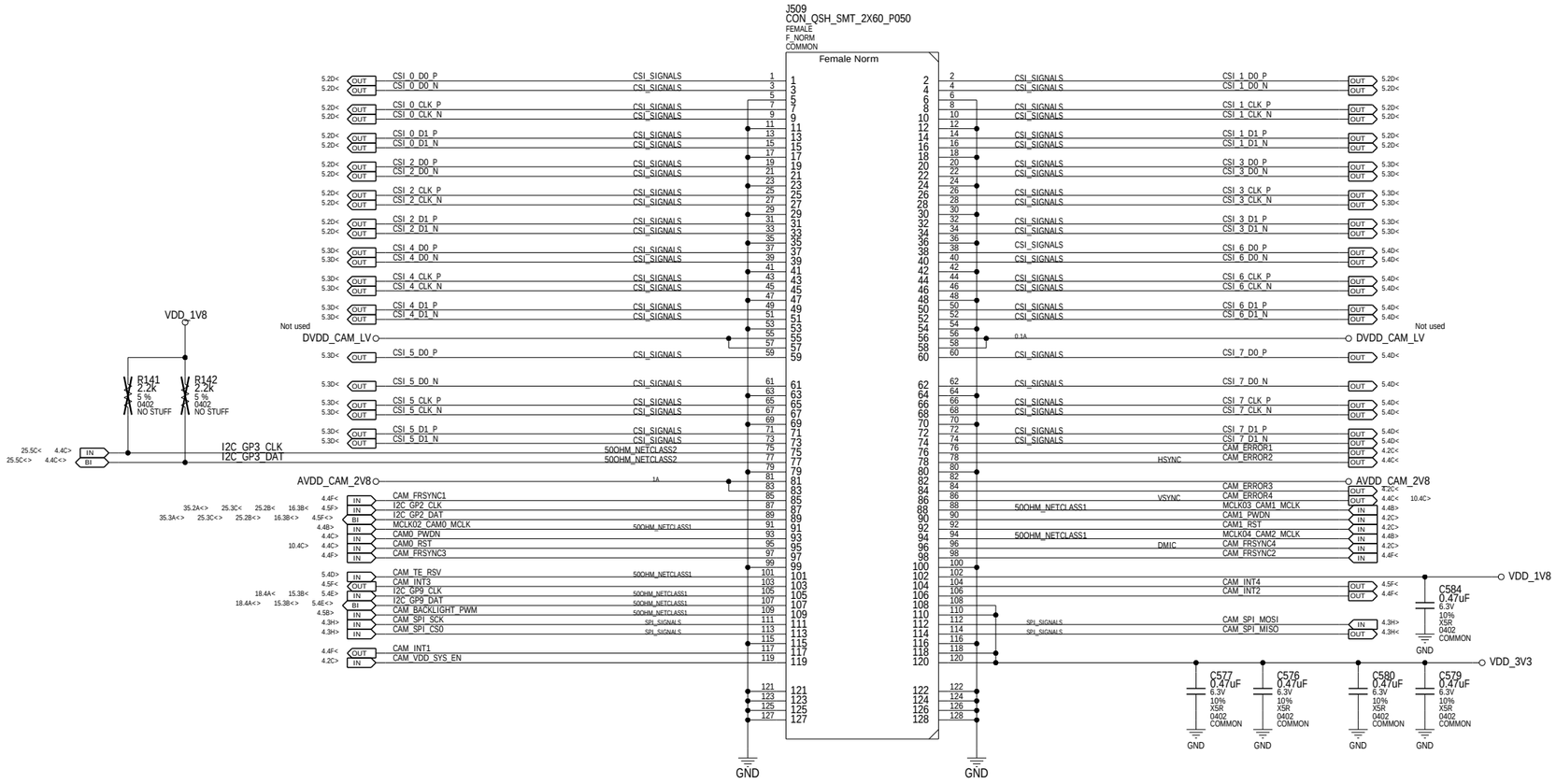
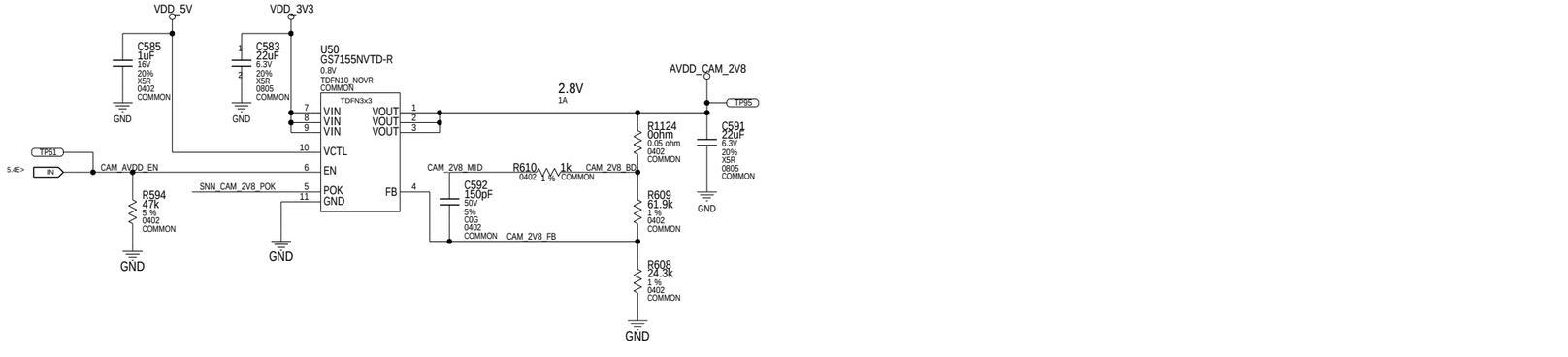
Camera Connector





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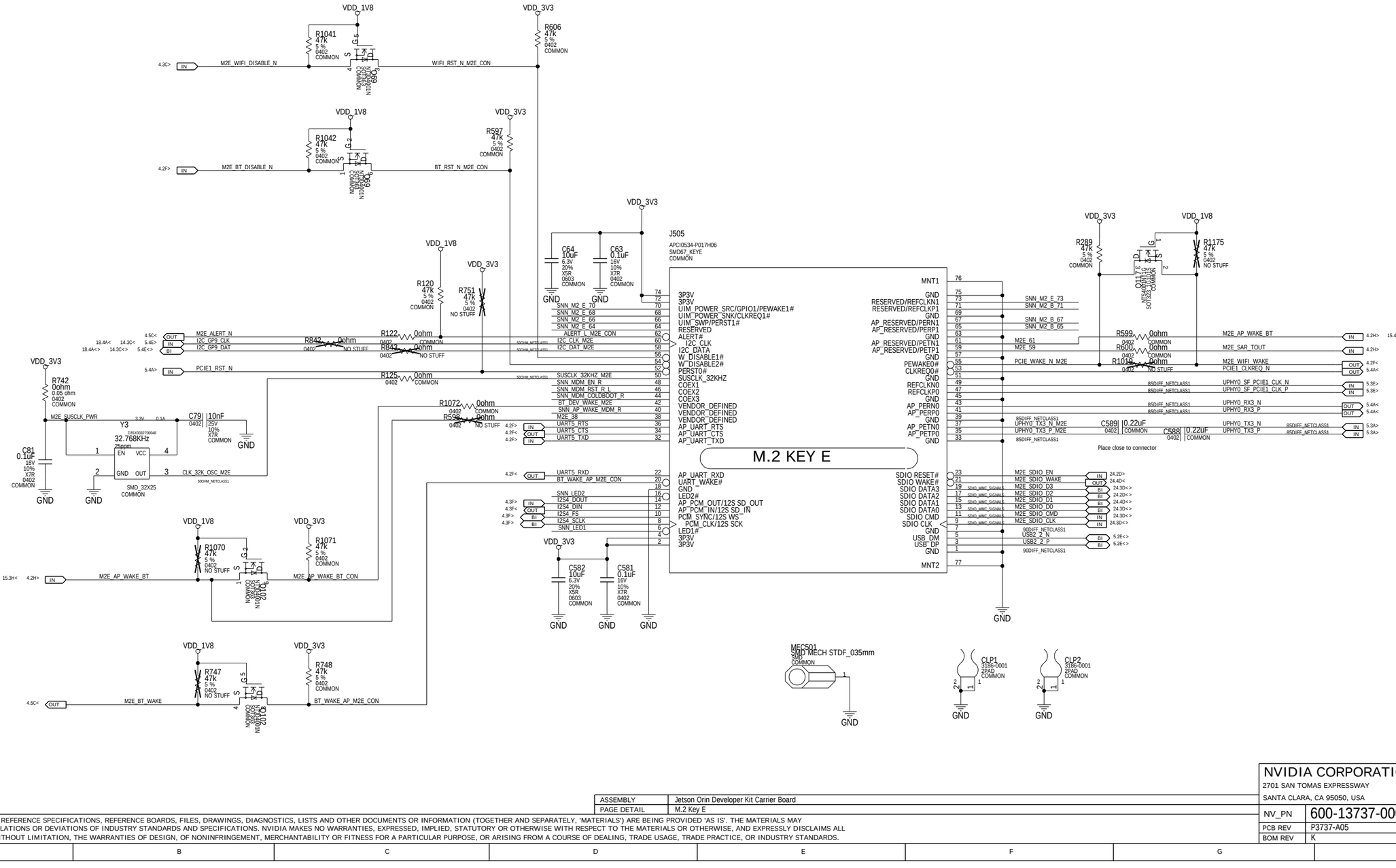
M.2 Key E Connector



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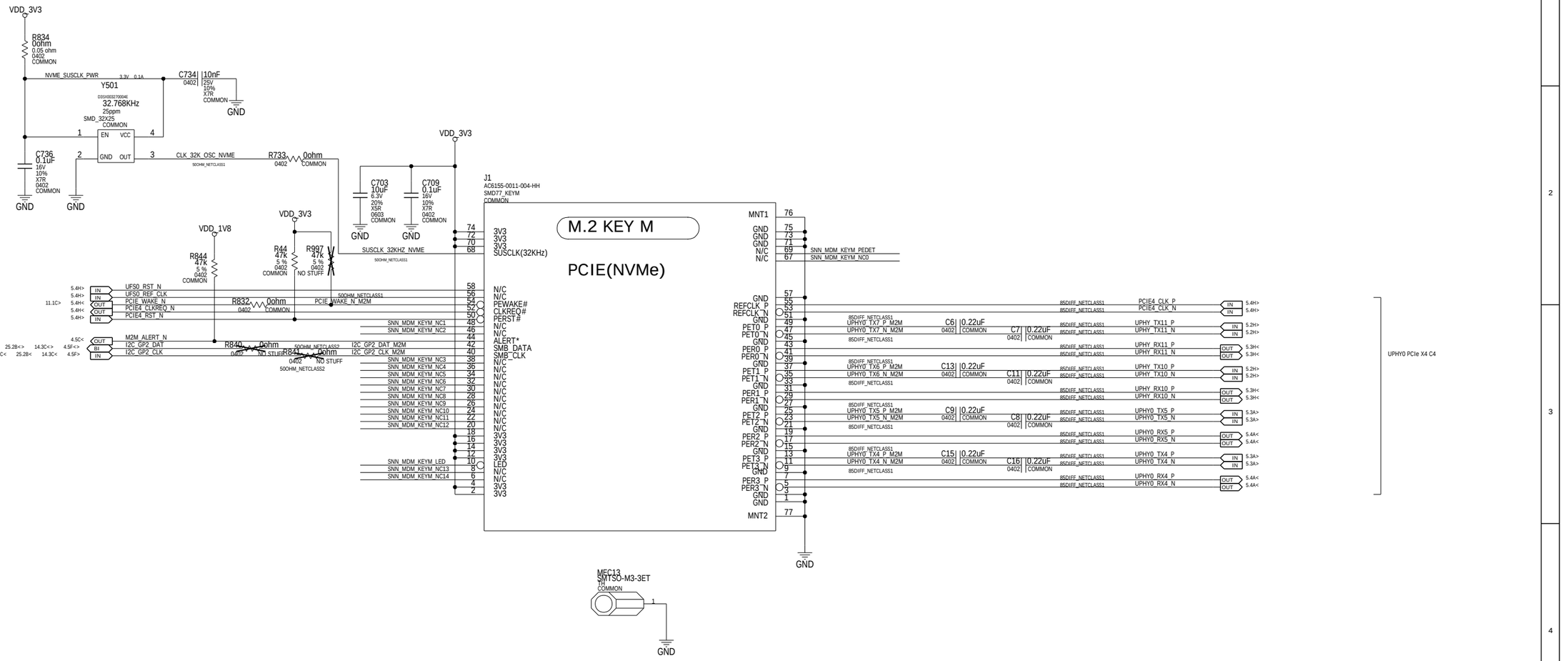
M.2 Key M Connector



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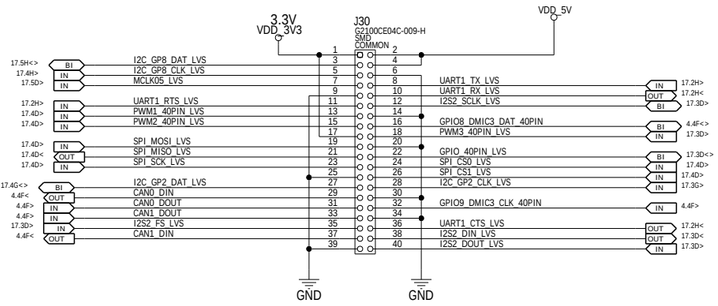

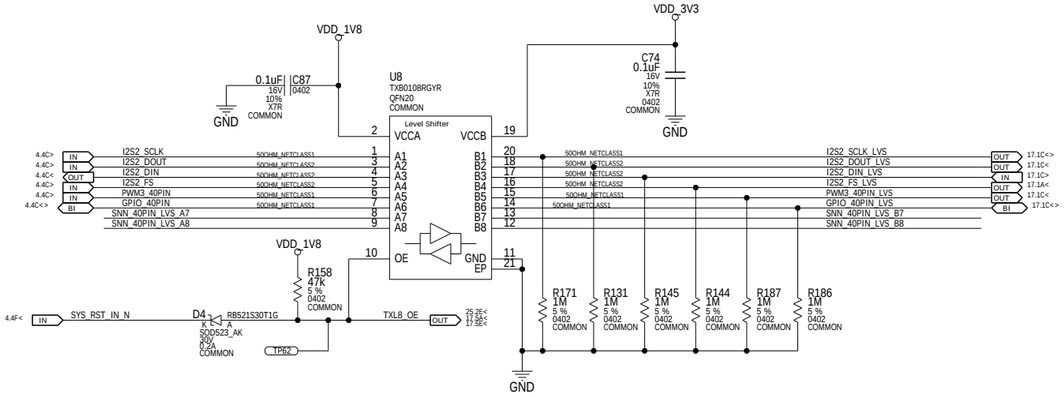

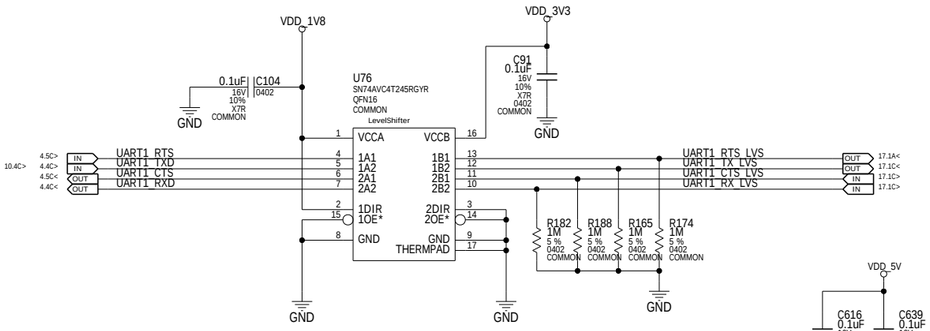

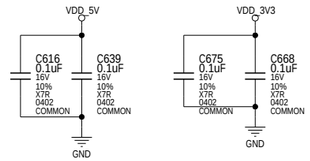

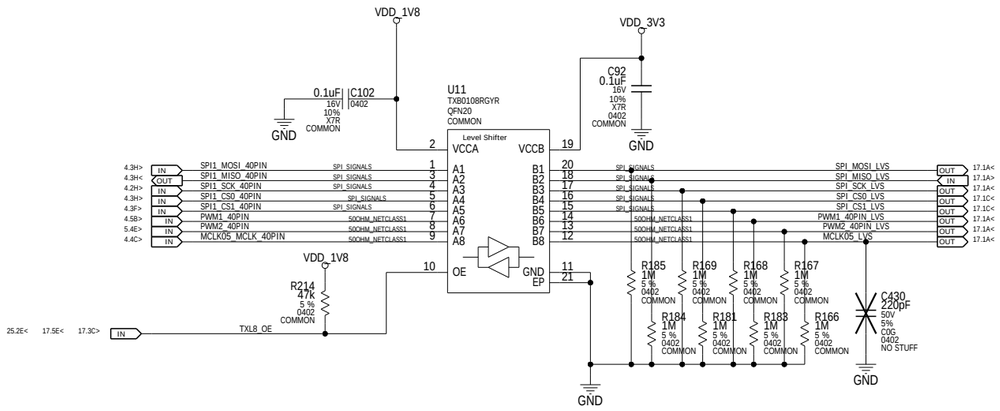

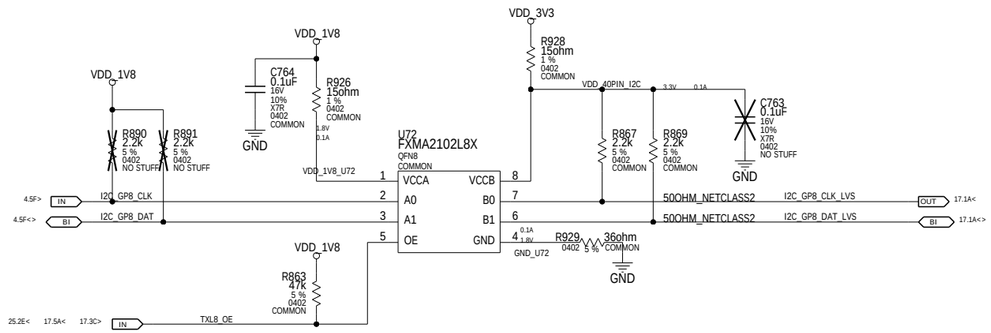

ASSEMBLY	Jetson Orin Developer Kit Carrier Board
PAGE DETAIL	40 Pin Header

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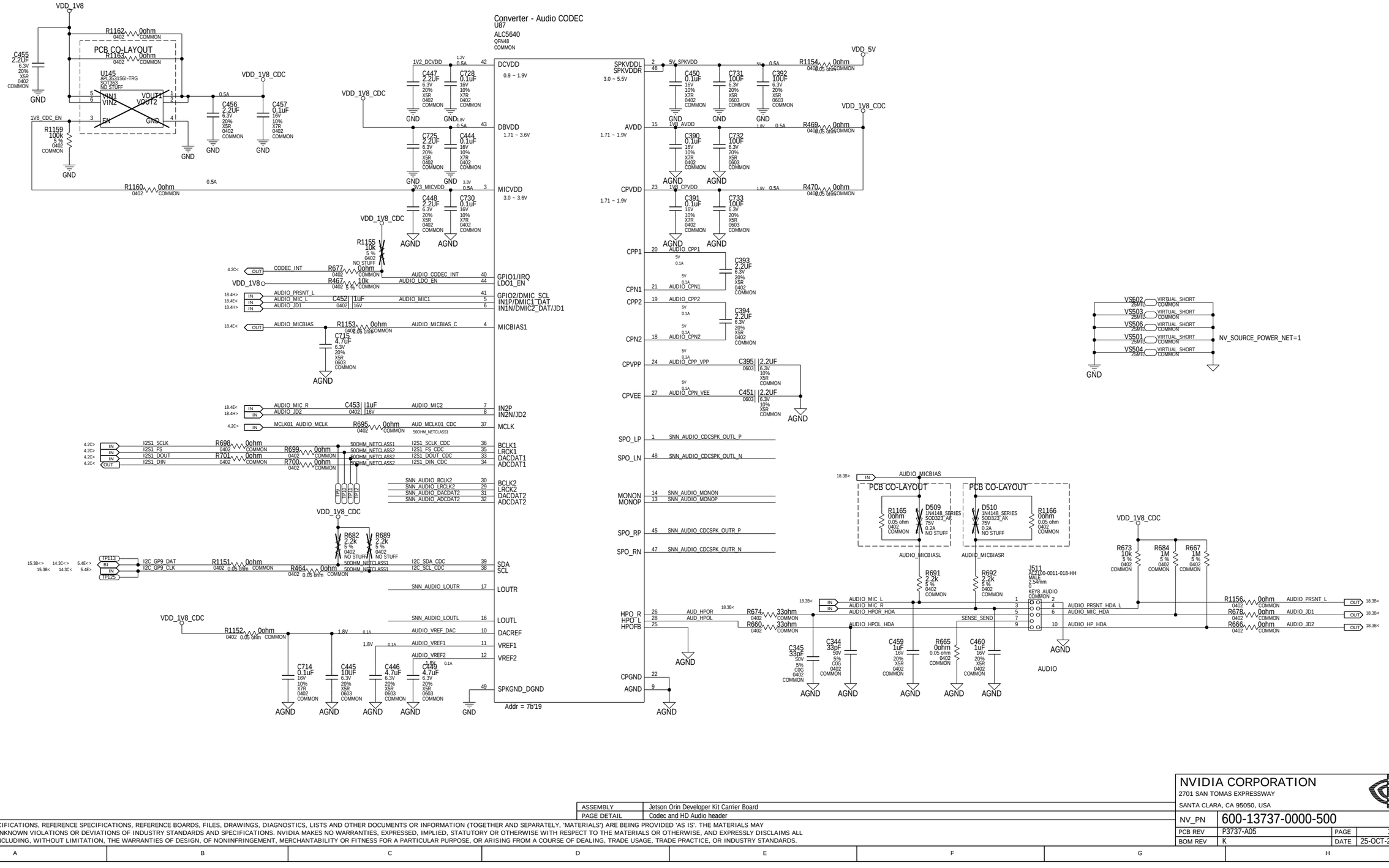
CODEC (I2S1)



ASSEMBLY	Jetson Orin Developer Kit Carrier Board
PAGE DETAIL	Codec and HD Audio header

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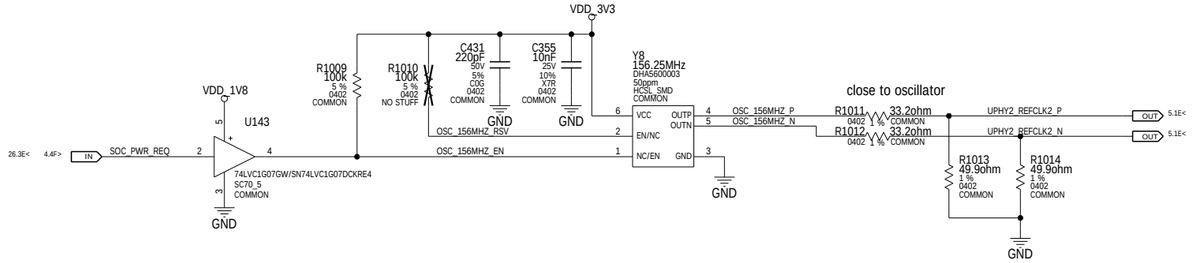
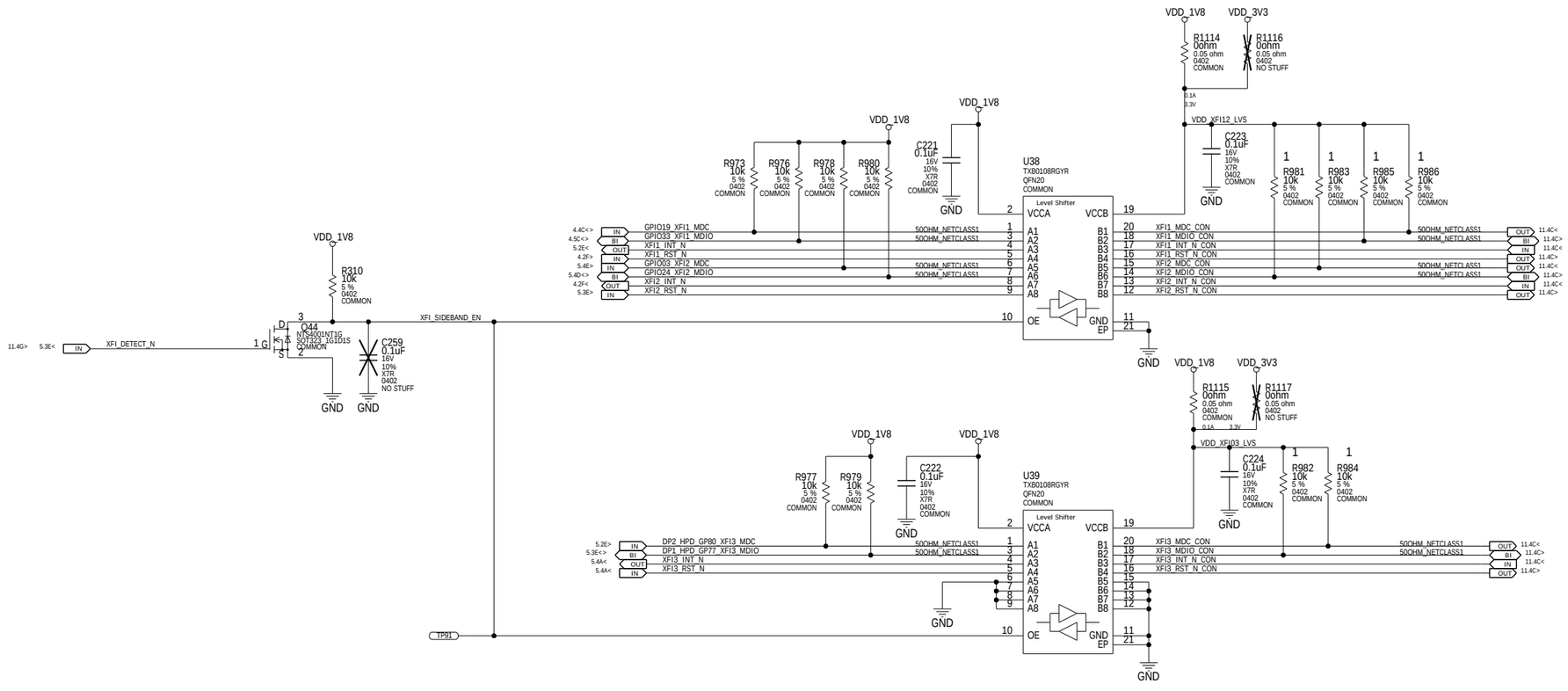
MGBE

MGBE reference clock





ASSEMBLY	Jetson Orin Developer Kit Carrier Board
PAGE DETAIL	XFI Mux

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USB3.1 GEN2 HUB x4 PORTS

DECOUPLING CAPS

VDD_AV1V1_HUB

VS1	VIRTUAL_SHORT SHORT	COMMON	AV1V1_1 1.1V 0.1A	C40	0402	0.1uF 16V 10% X7R COMMON
VS2	VIRTUAL_SHORT SHORT	COMMON	AV1V1_2 1.1V 0.1A	C41	0402	0.1uF 16V 10% X7R COMMON
VS3	VIRTUAL_SHORT SHORT	COMMON	AV1V1_3 1.1V 0.1A	C42	0402	0.1uF 16V 10% X7R COMMON
VS4	VIRTUAL_SHORT SHORT	COMMON	AV1V1_4 1.1V 0.1A	C43	0402	0.1uF 16V 10% X7R COMMON
VS5	VIRTUAL_SHORT SHORT	COMMON	AV1V1_5 1.1V 0.1A	C44	0402	0.1uF 16V 10% X7R COMMON
VS6	VIRTUAL_SHORT SHORT	COMMON	AV1V1_6 1.1V 0.1A	C45	0402	0.1uF 16V 10% X7R COMMON
VS7	VIRTUAL_SHORT SHORT	COMMON	AV1V1_7 1.1V 0.1A	C46	0402	0.1uF 16V 10% X7R COMMON
VS8	VIRTUAL_SHORT SHORT	COMMON	AV1V1_8 1.1V 0.1A	C47	0402	0.1uF 16V 10% X7R COMMON
VS17	VIRTUAL_SHORT SHORT	COMMON	AV1V1_9 1.1V 0.1A	C155	0402	0.1uF 16V 10% X7R COMMON
VS18	VIRTUAL_SHORT SHORT	COMMON	AV1V1_10 1.1V 0.1A	C156	0402	0.1uF 16V 10% X7R COMMON

GND

FOR AV10 PINS

VDD_3V3

VS9	VIRTUAL_SHORT SHORT	COMMON	AV33_2 3.3V 0.1A	C48	0402	0.1uF 16V 10% X7R COMMON
VS10	VIRTUAL_SHORT SHORT	COMMON	AV33_3 3.3V 0.1A	C49	0402	0.1uF 16V 10% X7R COMMON

GND

FOR AV33 PINS

VDD_3V3

VS12	VIRTUAL_SHORT SHORT	COMMON	5V_LDO 0.1A 5V	C51	0402	0.1uF 16V 10% X7R COMMON
VS13	VIRTUAL_SHORT SHORT	COMMON	5V_LDO 0.1A 5V	C52	0603	10uF 6.3V 20% X5R COMMON

GND

FOR 5V_LDO PIN

SPI FLASH

VDD_3V3

R804 10k 5 % 0402 COMMON
R809 10k 5 % 0402 COMMON
R810 10k 5 % 0402 COMMON
SPI_FL_HLD
U125 W25Q20CLSNIG-P3737 SO8 SO8 COMMON

SPI_FL_HLD	7	HOLD	VCC 8
SPI_FL_WP	3	WP	
SPI_HUB_CS	1	CS	
SPI_HUB_MOSI	5	SI	
SPI_HUB_MISO	2	SO	
SPI_HUB_SCK	6	SCK	GND 4

C170 0.1uF 16V 10% X7R 0402 COMMON

GND

GND

1V1 for USB HUB

VDD_5V

R1168 10k 5 % 0402 NO STUFF
TP134
BUCK_1V1_PG

U124 GS7303ACTD-R 0.6V DFN10 COMMON

	9	PGOOD OpenVReg	VIN 3
BUCK_1V1_EN	10	EN/FS	MODE/BOOT/NC 8 BUCK_1V1_MODE
	2	VCC	
			SW 6 BUCK_1V1_SW
			SW 7
			GND 4
			GND 5
	1	FB	THERM 11

C164 10uF 6.3V 20% X5R 0603 COMMON
C163 10uF 6.3V 20% X5R 0603 NO STUFF
R1077 10k 5 % 0402 NO STUFF
R1078 1.5nF 0402 10% COMMON

34.4B< 36.3F< 34.2A> IN VDD_3V3_PGOOD R1167 0ohm 0402 COMMON

R811 100k 1 % 0402 NO STUFF
C386 1uF 16V 20% X5R 0402 COMMON

C387 0.1uF 0402 10% 16V

L19 2.2uH 2520 COMMON
DC_RESISTANCE=0.102ohm
CONTINUOUS_CURRENT=2.2A
MAX_CURRENT=3A

VDD_AV1V1_HUB
TPI11

R815 100ohm 1 % 0402 COMMON
C166 22uF 6.3V 20% X5R 0805 COMMON 1.5A
C167 22uF 6.3V 20% X5R 0805 COMMON
C432 22uF 6.3V 20% X5R 0805 COMMON

BUCK_1V1_FB_MID
R1123 0ohm 0.05 ohm 0402 COMMON
C165 33pF 0402 50V 5% C0G COMMON
BUCK_1V1_FB
R177 68.1k 1 % 0402 COMMON Rt
R816 82.5k 1 % 0402 COMMON Rb

GND GND GND GND

VOUT=(0.6V)/ (Rb/(Rt+Rb))
Rt=68.1k
Rb=82.5k
VOUT=1.096V

PULL-UP FOR OCP

VDD_3V3

R38 100k 5 % 0402 COMMON HUB_DSP12_OCP

VDD_3V3

R817 100k 5 % 0402 COMMON HUB_DSP34_OCP

POWER ON/OFF CONTROL

VDD_3V3

R826 10k 5 % 0402 COMMON HUB_PWR_DET
SELF POWER DETECTION

DISCHARGE

VDD_AV1V1_HUB

R1148 100ohm 0603 NO STUFF
R1149 100ohm 5 % 0603 NO STUFF

35.4F< 34.4G< 34.2G< 32.4H< IN DISCHARGE 1 G

Q111 RTS3001NT1G SOT323_1G1D1S NO STUFF
D 3 VDD_AV1V1_DISCHARGE
S 2
MAX_VOLTAGE=30V
CONTINUOUS_CURRENT=0.27A
MAX_RDS_ON=1.5ohm@1.8V / 1500mohm@4.5V / 1500mohm@2.5V
MAX_CURRENT=0.8A
MAX_WATTAGE=0.33W
V_BE_GS=20V

GND

HOST

5.2E<> BI USB2_3_P 90DIFF_NETCLASS1
5.2E<> BI USB2_3_N 90DIFF_NETCLASS1

21.3A<> BI 90DIFF_NETCLASS1 USB2_3_BYPASS_P
PCB CO-LAYOUT 1 R1136 0ohm 0402 NO STUFF
R1142 0ohm 0402 COMMON

21.3A<> BI 90DIFF_NETCLASS1 USB2_3_BYPASS_N
PCB CO-LAYOUT 1 R1137 0ohm 0402 NO STUFF
R1143 0ohm 0402 COMMON

5.4C< OUT UPHY0_RX2_P 85DIFF_NETCLASS1 C331 0.1uF 0402 16V 10% X7R COMMON
5.4C< OUT UPHY0_RX2_N 85DIFF_NETCLASS1 C332 0.1uF 0402 16V 10% X7R COMMON
5.3A> IN UPHY0_TX2_P 85DIFF_NETCLASS1 C330 0.1uF 0402 16V 10% X7R COMMON
5.3A> IN UPHY0_TX2_N 85DIFF_NETCLASS1 C333 0.1uF 0402 16V 10% X7R COMMON

U7 RTS5420-GR QFN88 COMMON — 2 / 2

90DIFF_NETCLASS1 USB2_3_HUB_P	47	USP_D_P	DSP1_D_P	49	90DIFF_NETCLASS1 DSP1_DP BI 21.2A<>
90DIFF_NETCLASS1 USB2_3_HUB_N	48	USP_D_N	DSP1_D_N	50	90DIFF_NETCLASS1 DSP1_DN BI 21.2A<>
85DIFF_NETCLASS1 USBSS_TX_HUB_P	77	USP_TX_P	DSP1_TX_P	12	90DIFF_NETCLASS1 DSP1_SSTX_P OUT 21.2A<
85DIFF_NETCLASS1 USBSS_TX_HUB_N	78	USP_TX_N	DSP1_TX_N	13	90DIFF_NETCLASS1 DSP1_SSTX_N OUT 21.2A<
85DIFF_NETCLASS1 USBSS_RX_HUB_P	74	USP_RX_P	DSP1_RX_P	9	90DIFF_NETCLASS1 DSP1_SSRX_P IN 21.2A>
85DIFF_NETCLASS1 USBSS_RX_HUB_N	73	USP_RX_N	DSP1_RX_N	8	90DIFF_NETCLASS1 DSP1_SSRX_N IN 21.2A>
SPI_HUB_MISO	58	SPI_MISO	DSP2_D_P	51	90DIFF_NETCLASS1 DSP2_DP BI 21.4A<>
SPI_HUB_MOSI	59	SPI_MOSI	DSP2_D_N	52	90DIFF_NETCLASS1 DSP2_DN BI 21.4A<>
SPI_HUB_SCK	60	SPI_SCK	DSP2_TX_P	5	90DIFF_NETCLASS1 DSP2_SSTX_P OUT 21.4A<
SPI_HUB_CS	61	SPI_SCS_N	DSP2_TX_N	6	90DIFF_NETCLASS1 DSP2_SSTX_N OUT 21.4A<
			DSP2_RX_P	3	90DIFF_NETCLASS1 DSP2_SSRX_P IN 21.4A>
SNN_HUB_I2C_CLK	17	I2C_CLK	DSP2_RX_N	2	90DIFF_NETCLASS1 DSP2_SSRX_N IN 21.4A>
SNN_HUB_I2C_DAT	66	I2C_DAT	DSP3_D_P	53	90DIFF_NETCLASS1 DSP3_DP BI 22.2A<>
SNN_HUB_I2C_INT_N	67	I2C_INT*	DSP3_D_N	54	90DIFF_NETCLASS1 DSP3_DN BI 22.2A<>
SNN_HUB_SM_INT_N	68	SM_INT*	DSP3_TX_P	33	90DIFF_NETCLASS1 DSP3_SSTX_P OUT 22.3A<
HUB_I2C_CLK	69	SM_CLK	DSP3_TX_N	34	90DIFF_NETCLASS1 DSP3_SSTX_N OUT 22.3A<
HUB_I2C_DAT	70	SM_DAT	DSP3_RX_P	31	90DIFF_NETCLASS1 DSP3_SSRX_P IN 22.2A>
			DSP3_RX_N	30	90DIFF_NETCLASS1 DSP3_SSRX_N IN 22.2A>
HUB_DSP12_OCP	21	DSP1_OCP	DSP4_D_P	55	90DIFF_NETCLASS1 DSP4_DP BI 22.4A<>
	62	DSP2_OCP	DSP4_D_N	56	90DIFF_NETCLASS1 DSP4_DN BI 22.4A<>
HUB_DSP34_OCP	20	DSP3_OCP	DSP4_TX_P	27	90DIFF_NETCLASS1 DSP4_SSTX_P OUT 22.5A<
	63	DSP4_OCP	DSP4_TX_N	28	90DIFF_NETCLASS1 DSP4_SSTX_N OUT 22.4A<
HUB_XTAL_IN	43	XTLI	DSP4_RX_P	25	90DIFF_NETCLASS1 DSP4_SSRX_P IN 22.4A>
HUB_XTAL_OUT	44	XTLO	DSP4_RX_N	24	90DIFF_NETCLASS1 DSP4_SSRX_N IN 22.4A>
R35 6.19k 0402 1 % COMMON RREF	45	RREF			
HUB_PWR_DET	39	LOC_PWR			
	36	BPWR_DET	DSP1_PWR_EN	19	HUB_DSP12_PWR_EN OUT 21.1C<
SNN_HUB_GPIO14	71	GPIO14	DSP2_PWR_EN	64	
SNN_HUB_ADC_IN0	37	ADC_IN0	DSP3_PWR_EN	18	HUB_DSP34_PWR_EN OUT 22.1C<
SNN_HUB_ADC_IN1	38	ADC_IN1	DSP4_PWR_EN	65	
SNN_HUB_NC01	10	NC	NC	79	SNN_HUB_NC07
SNN_HUB_NC02	11	NC	NC	80	SNN_HUB_NC08
SNN_HUB_NC03	14	NC	NC	82	SNN_HUB_NC09
SNN_HUB_NC04	15	NC	NC	84	SNN_HUB_NC10
SNN_HUB_NC05	75	NC	NC	86	SNN_HUB_NC11
SNN_HUB_NC06	76	NC	NC	88	SNN_HUB_NC12

Y1 7M12070053 SMD 32X25 12MHz COMMON
C61 22pF 0402 50V 5% C0G COMMON
C317 22pF 0402 50V 5% C0G COMMON
GND

I2C slave addrs: 7'1101010b = 7'h6A

28.3C< 25.2F> 17.3E< IN I2C_GP2_CLK_3V3 R872 0ohm 0402 COMMON
28.3C<> 25.2F<> 17.4E<> BI I2C_GP2_DAT_3V3 R874 0ohm 0402 COMMON

U7 RTS5420-GR QFN88 COMMON — 1 / 2

SNN_5V_IN1	83	5V_IN	ADC_CAP	40	HUB_ADC_CAP C55 0.1uF 0402 16V 10% X7R COMMON GND
SNN_5V_IN2	87	5V_IN			
5V_LDO	41	5V_LDO			
	22	AV33			
AV33_2	42	AV33			
AV33_3	85	AV33			
AV1V1_1	1	AV10			
AV1V1_2	7	AV10			
AV1V1_3	16	AV10			
AV1V1_4	23	AV10			
AV1V1_5	29	AV10			
AV1V1_6	35	AV10			
AV1V1_7	46	AV10			
AV1V1_8	57	AV10			
AV1V1_9	72	AV10			
AV1V1_10	81	AV10	GND	4	
			GND	26	
			GND	32	
			GND	89	
			EPAD		

VDD_3V3
C58 10uF 6.3V 20% X5R 0603 COMMON
C56 0.1uF 16V 10% X7R 0402 COMMON
GND

GND

ASSEMBLY	Jetson Orin Developer Kit Carrier Board
PAGE DETAIL	USB3.1 HUB

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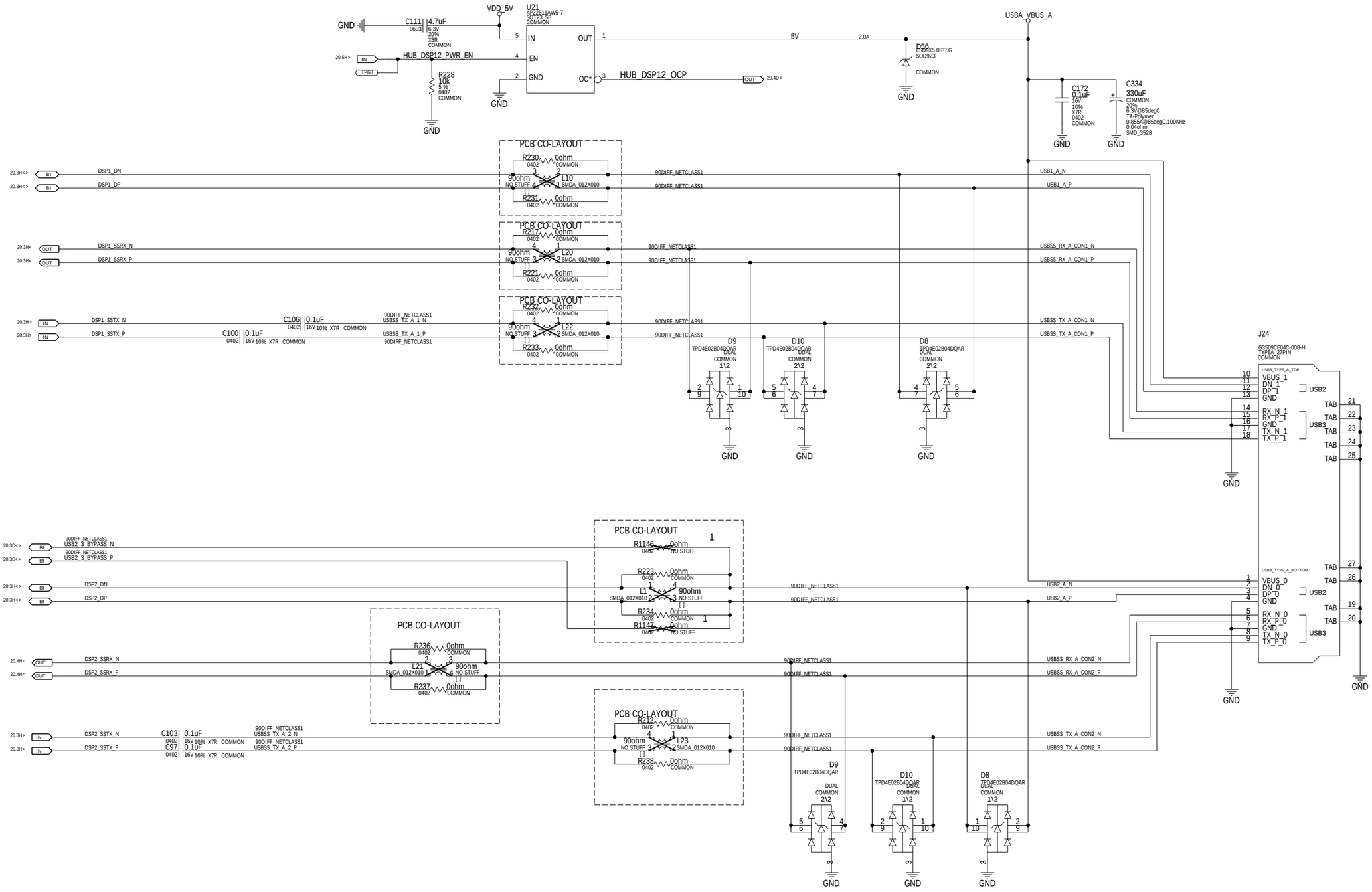
USB3.1 TYPE-A x2 (A)

From HUB



ASSEMBLY	Jetson Orin Developer Kit Carrier Board
PAGE DETAIL	USB3.1 TypeA x2 (A)

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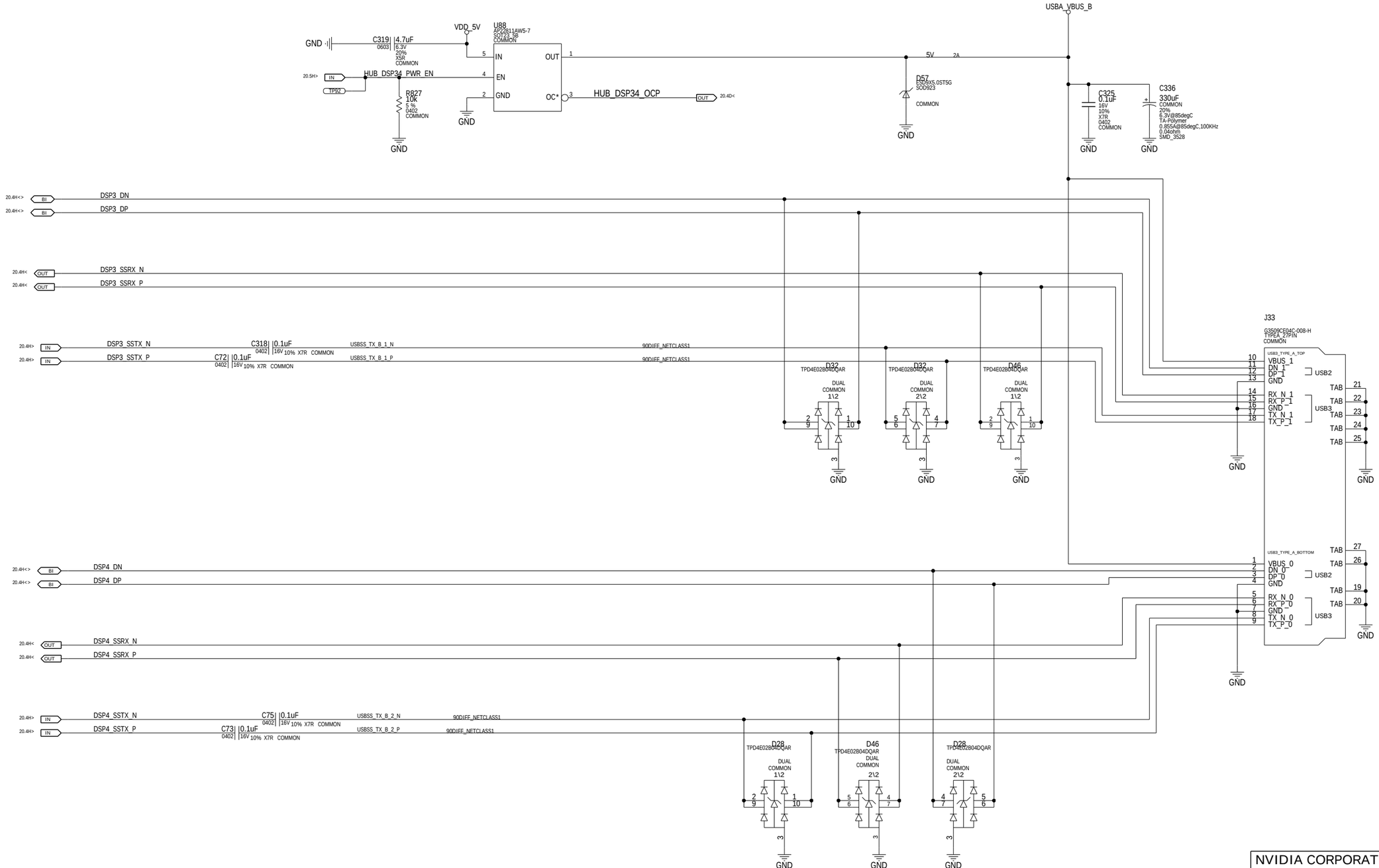
USB3.1 TYPE-A x2 (B)



ASSEMBLY	Jetson Orin Developer Kit Carrier Board
PAGE DETAIL	USB3.1 TypeA x2 (B)

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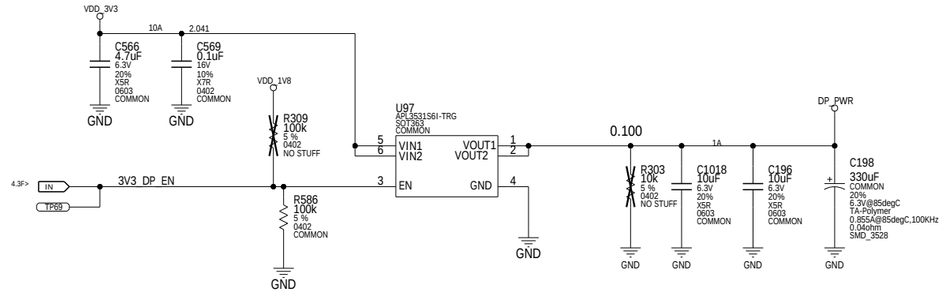

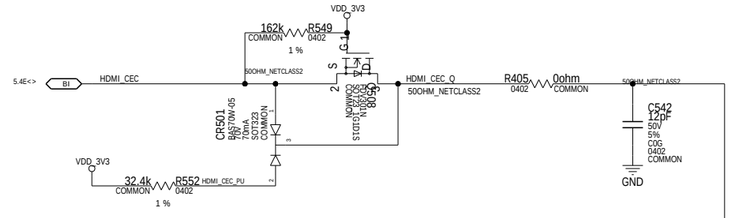

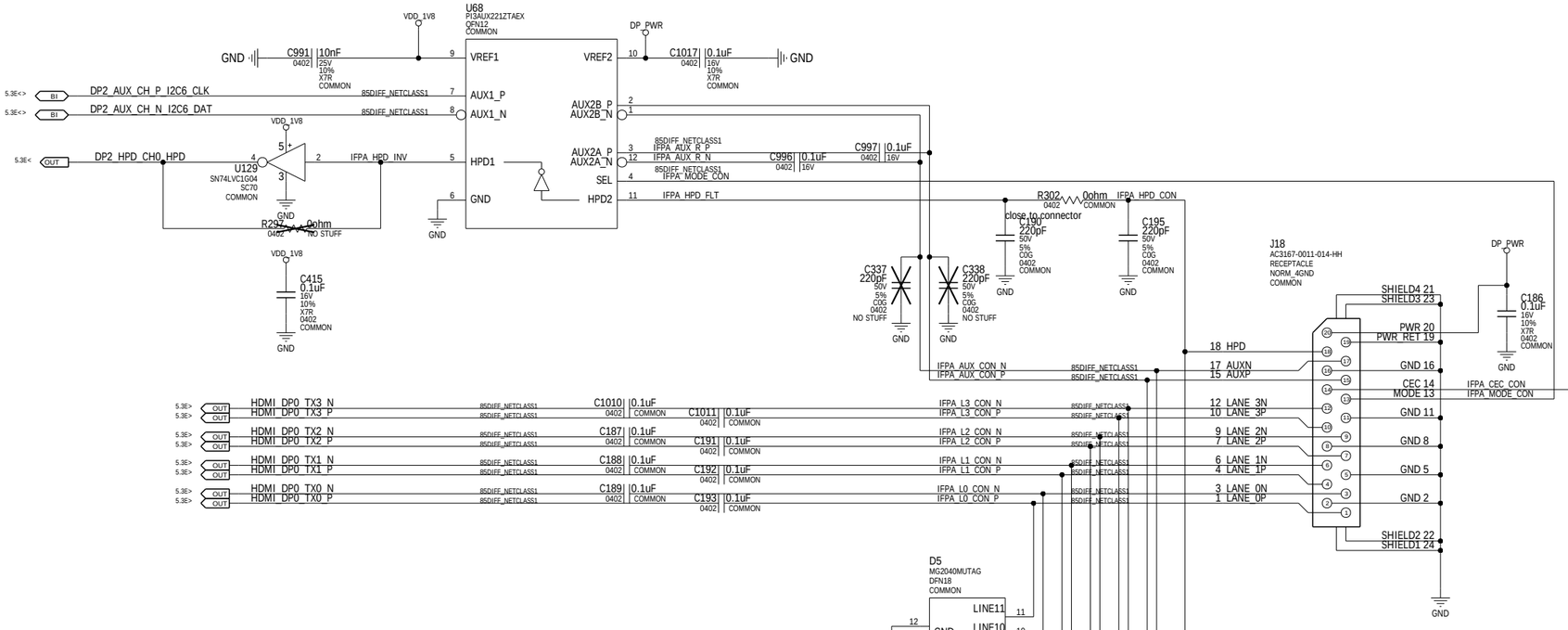

ASSEMBLY	Jetson Orin Developer Kit Carrier Board
PAGE DETAIL	DP Connector

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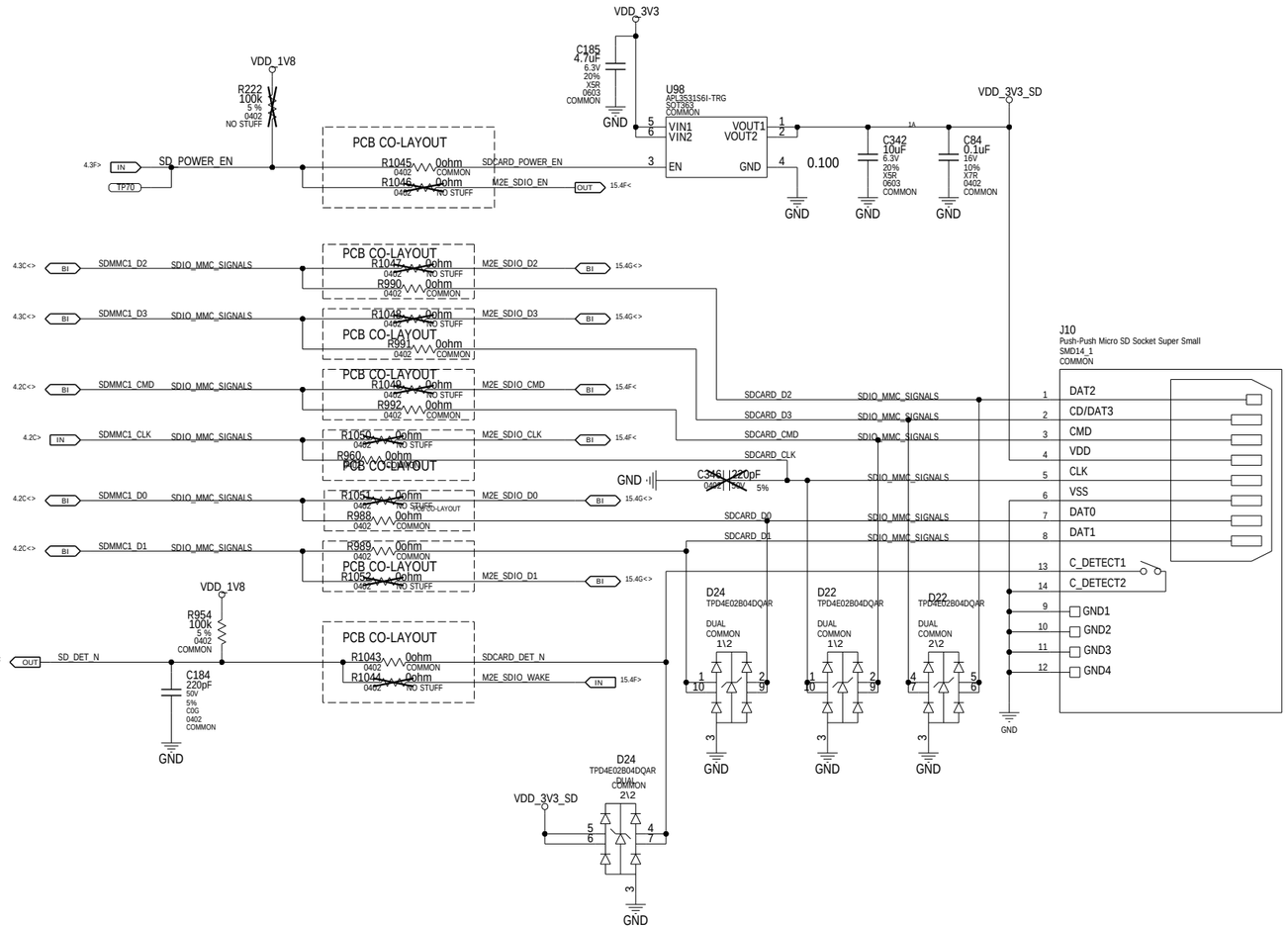

ASSEMBLY	Jetson Orin Developer Kit Carrier Board
PAGE DETAIL	microSD Socket

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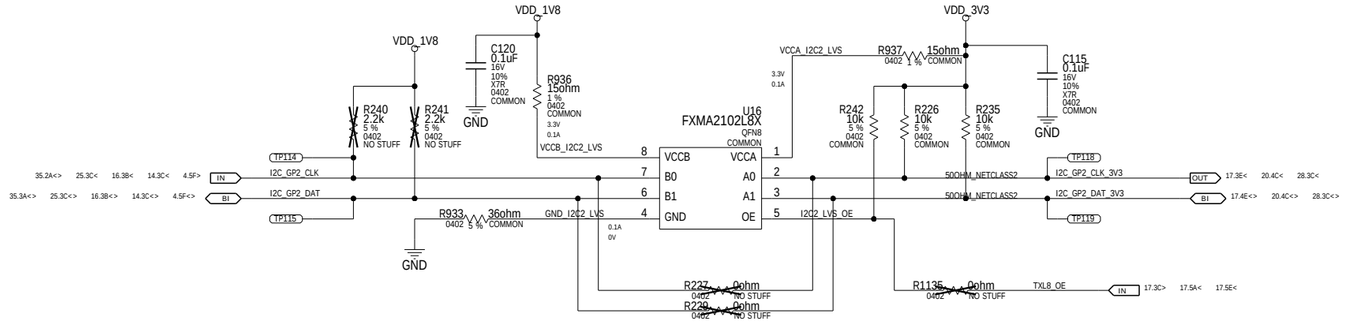
I2C GP2 LEVEL SHIFTER/REPEATER



ASSEMBLY	Jetson Orin Developer Kit Carrier Board
PAGE DETAIL	I2C Levelshifter

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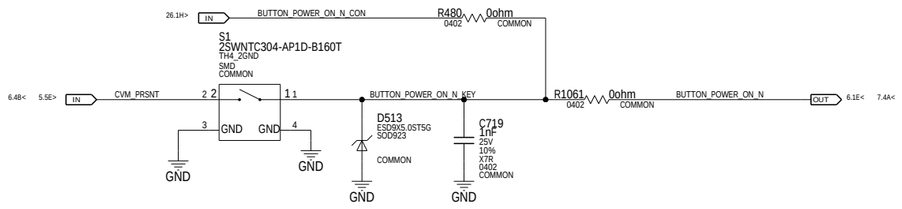
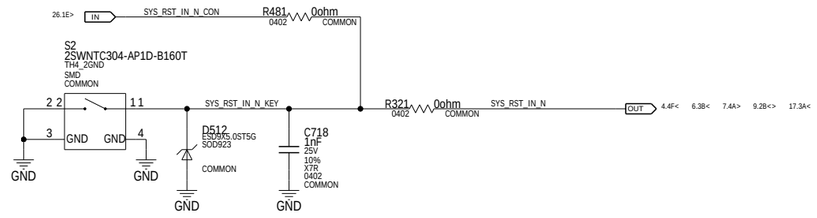
Buttons & Fan

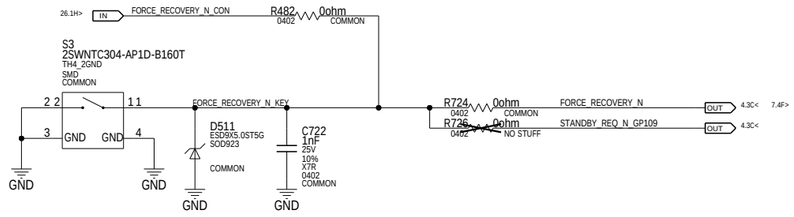
POWER



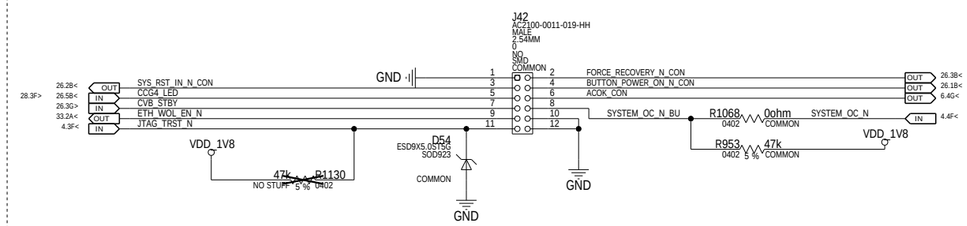
RESET



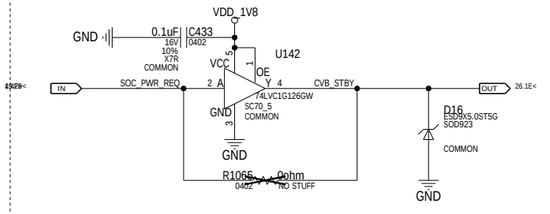
FORCE_RECOVERY

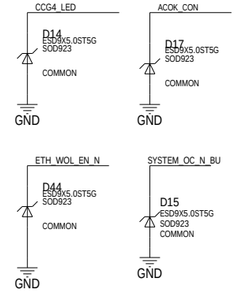


Automation Header

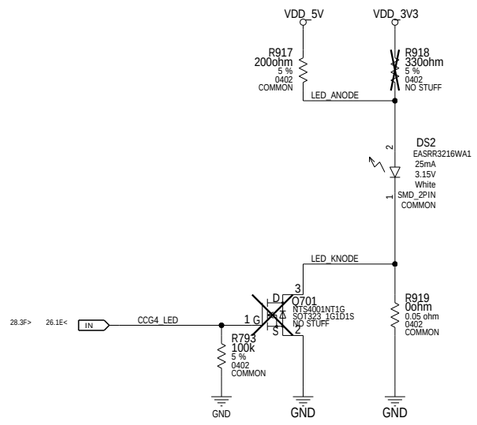


1: GND
2: FORCE_RECOVERY
3: SYS_RST
4: BUTTON_POWER
5-6 OPEN:AUTO POWER ON DISABLE
5-6 SHORT:AUTO POWER ON ENABLE
7: CVB_STBY
8: SYSTEM_OC_N
9-10 OPEN:WOL DISABLE
9-10 SHORT:WOL ENABLE
11/12: Scandump

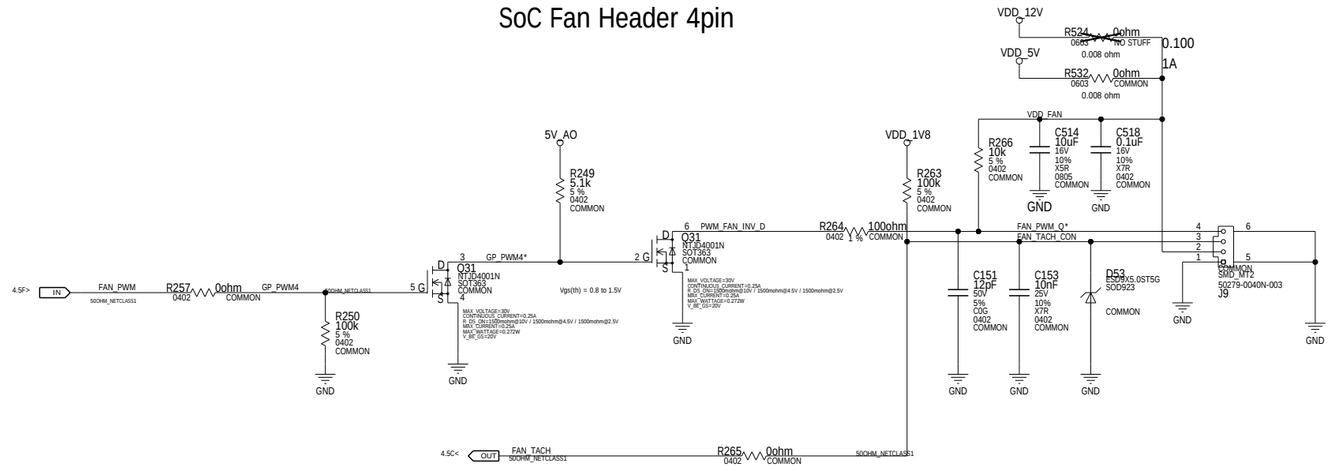




LED



SoC Fan Header 4pin



ASSEMBLY	Jetson Orin Developer Kit Carrier Board
PAGE DETAIL	Buttons & Fan

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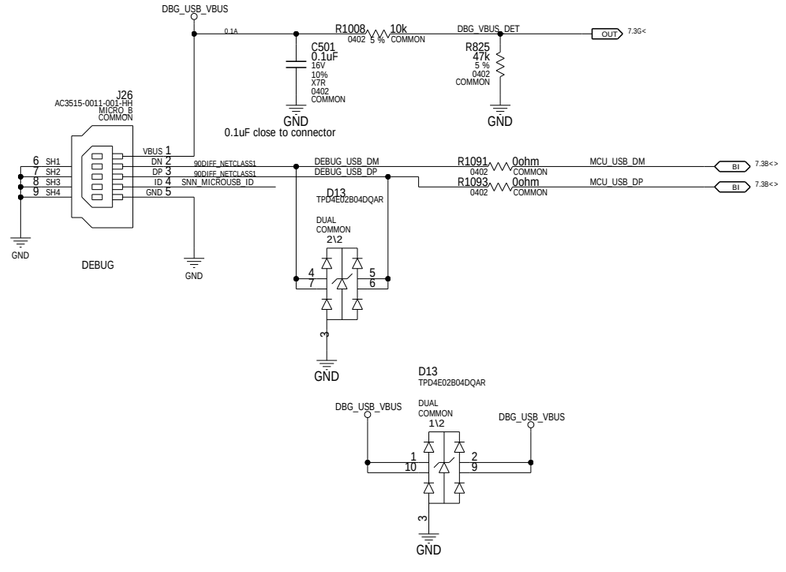
MICROUSB



ASSEMBLY	Jetson Orin Developer Kit Carrier Board
PAGE DETAIL	USB Debug Connector

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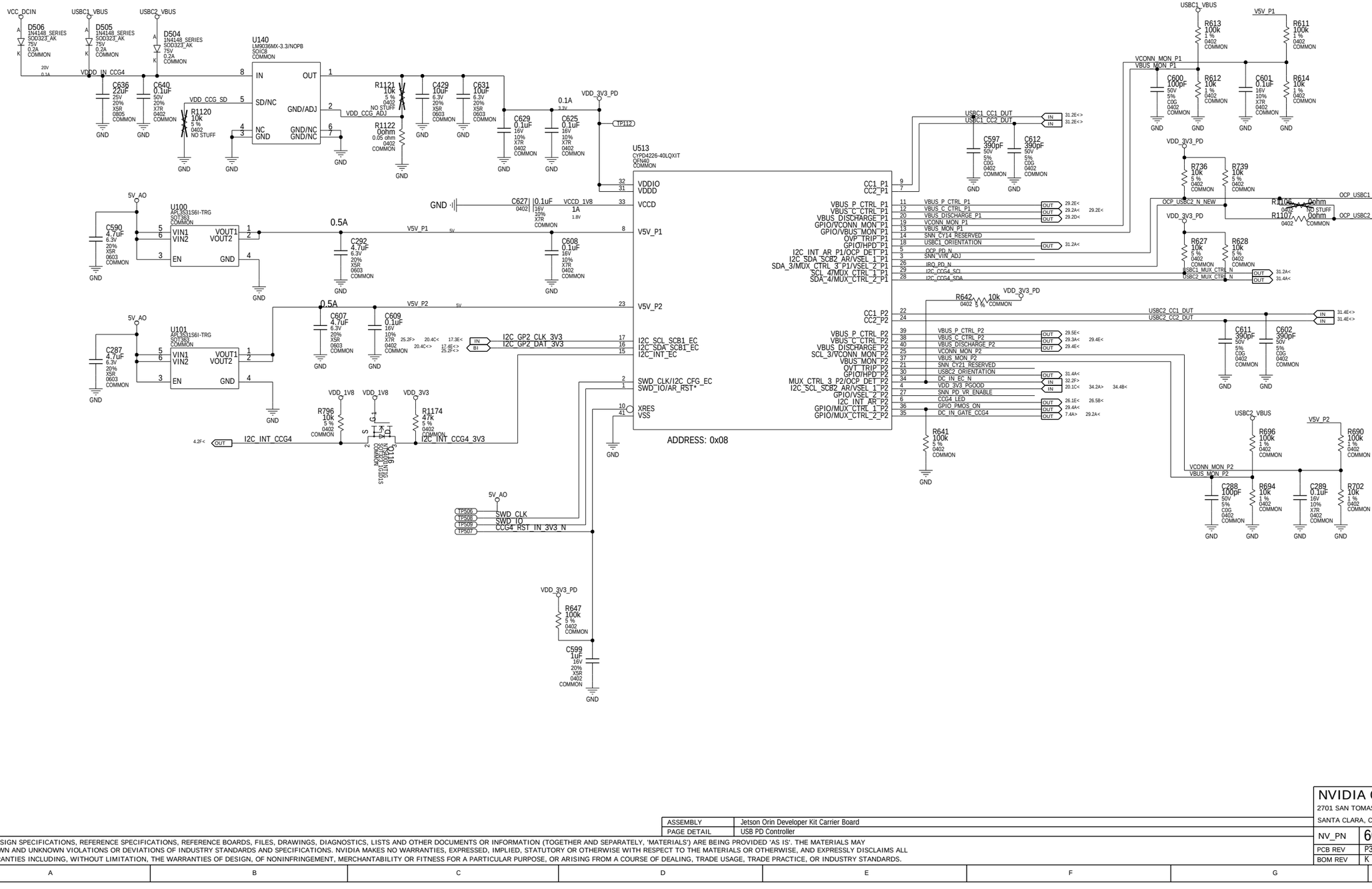
USB PD Controller



ASSEMBLY	Jetson Orin Developer Kit Carrier Board
PAGE DETAIL	USB PD Controller

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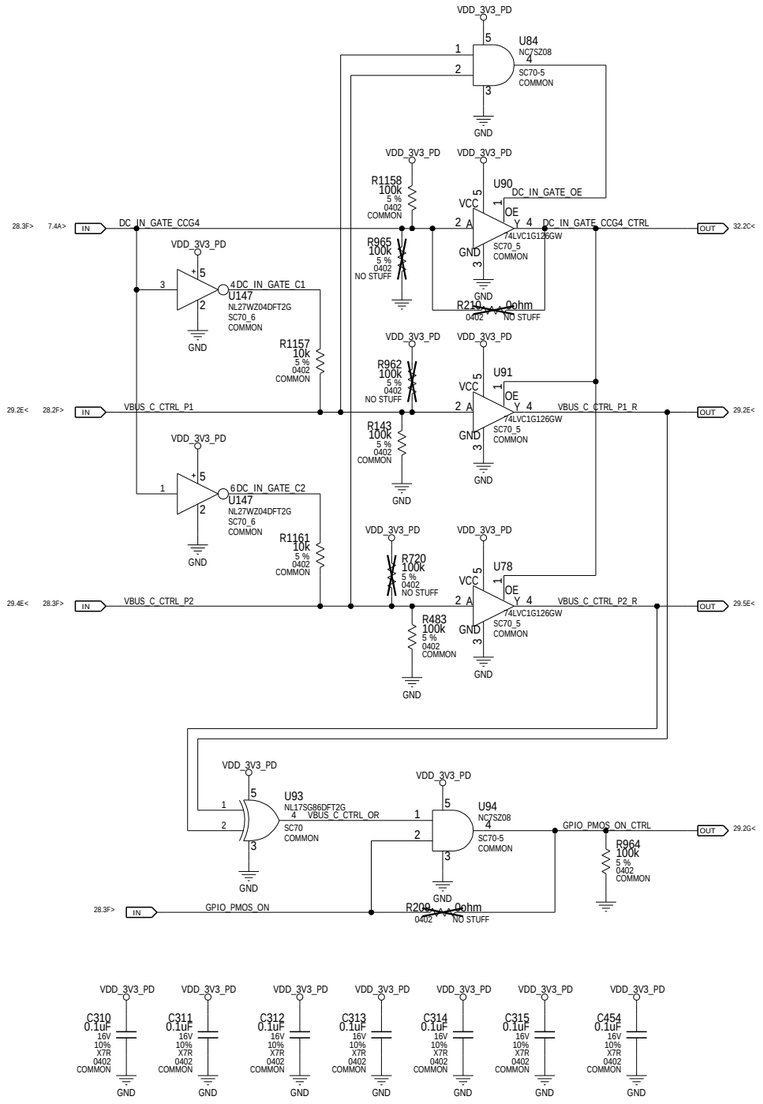
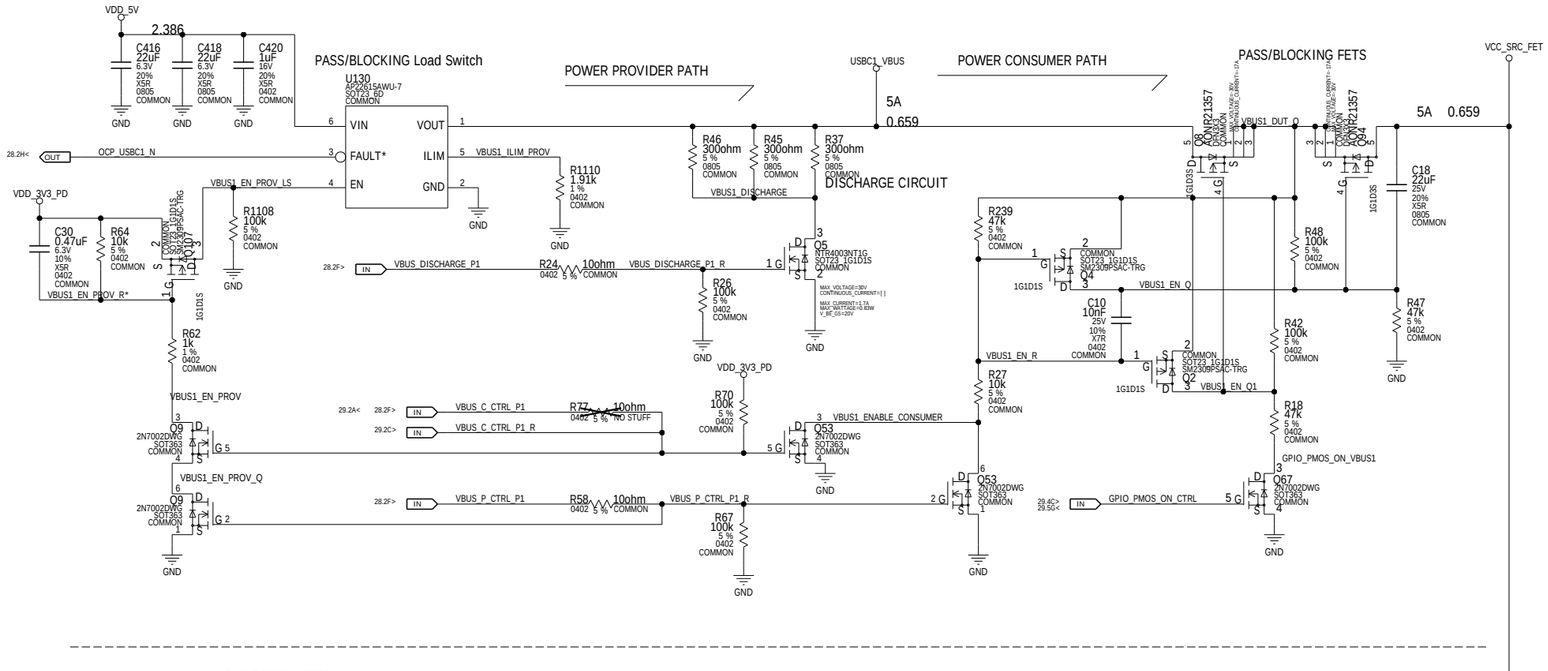
USB PD FET logic

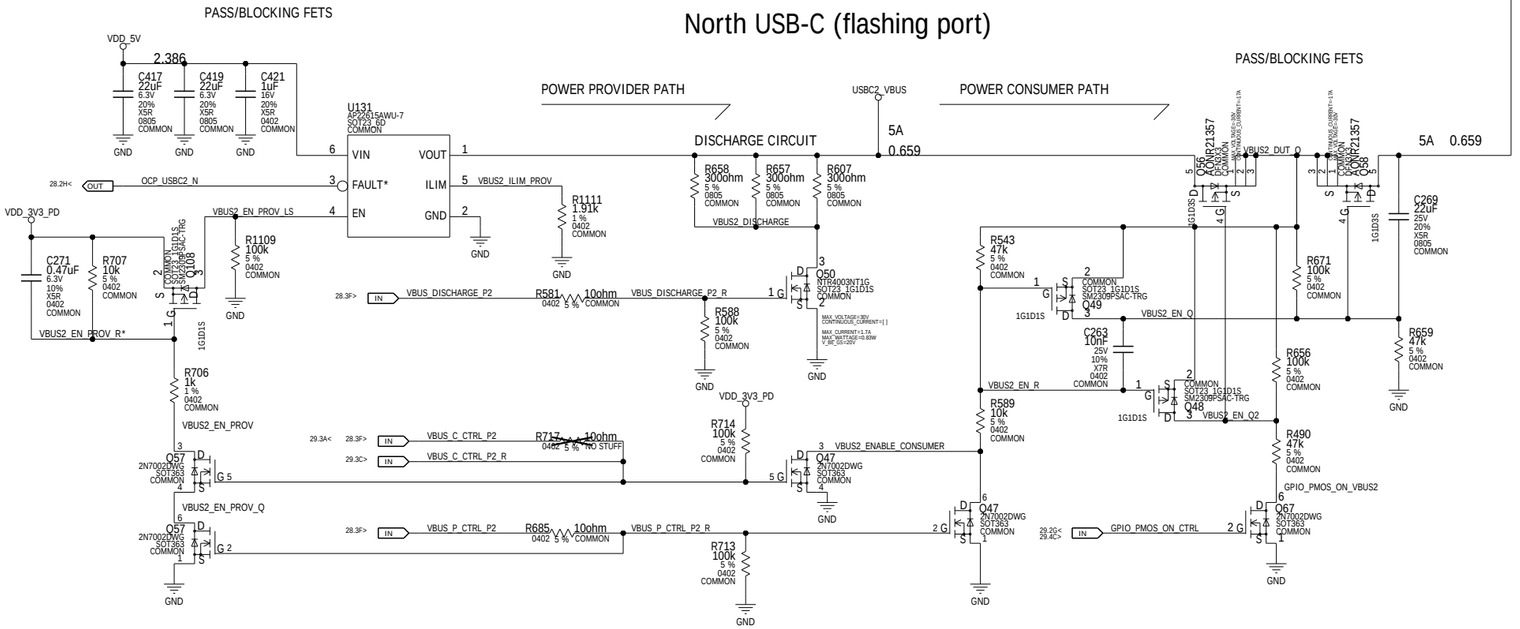


USB PD Power Path

South USB-C



North USB-C (flashing port)



ASSEMBLY	Jetson Orin Developer Kit Carrier Board
PAGE DETAIL	USB PD Path

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PAGE DETAIL	Reserved

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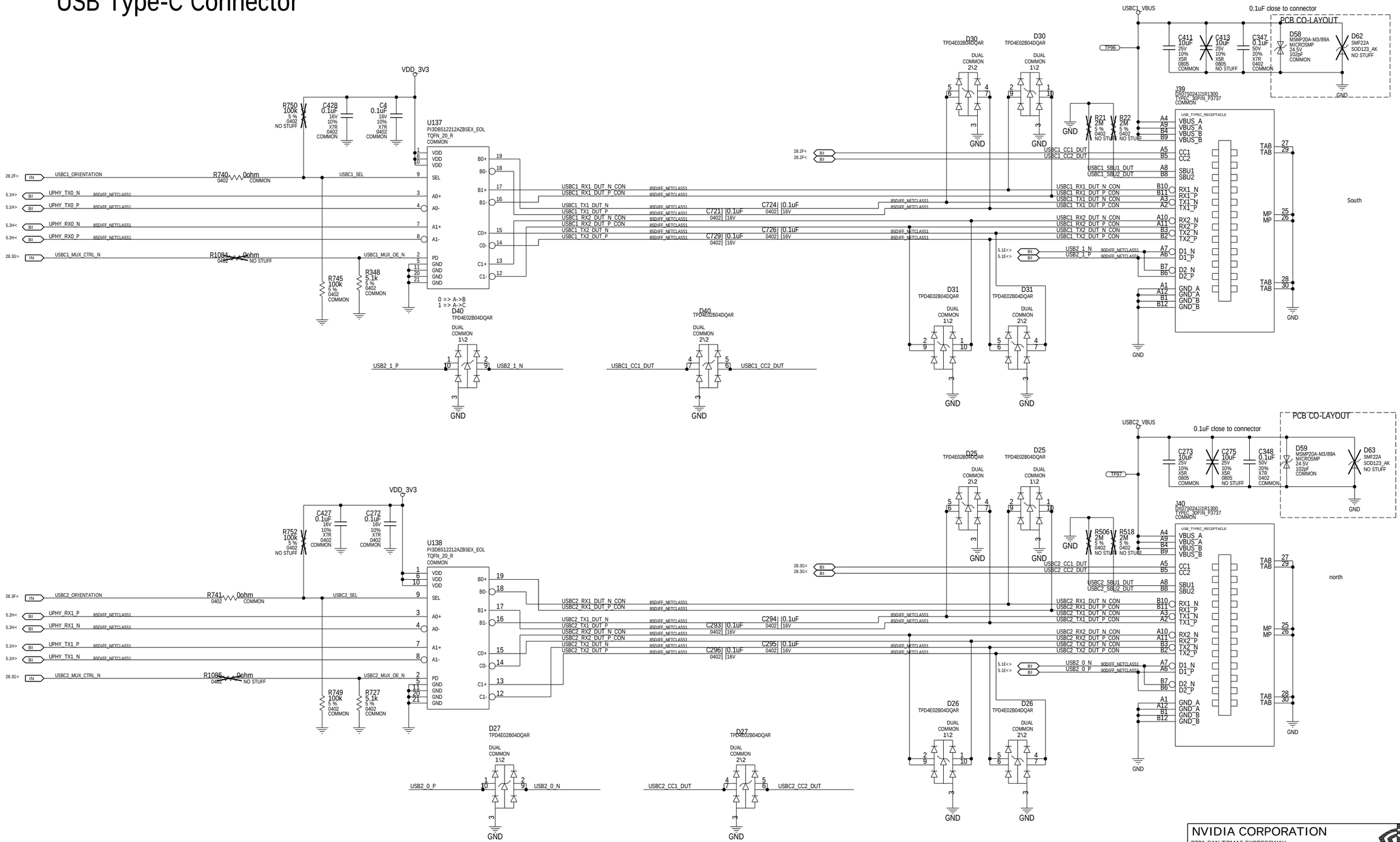
USB Type-C Connector



ASSEMBLY	Jetson Orin Developer Kit Carrier Board
PAGE DETAIL	USB type-C Connector

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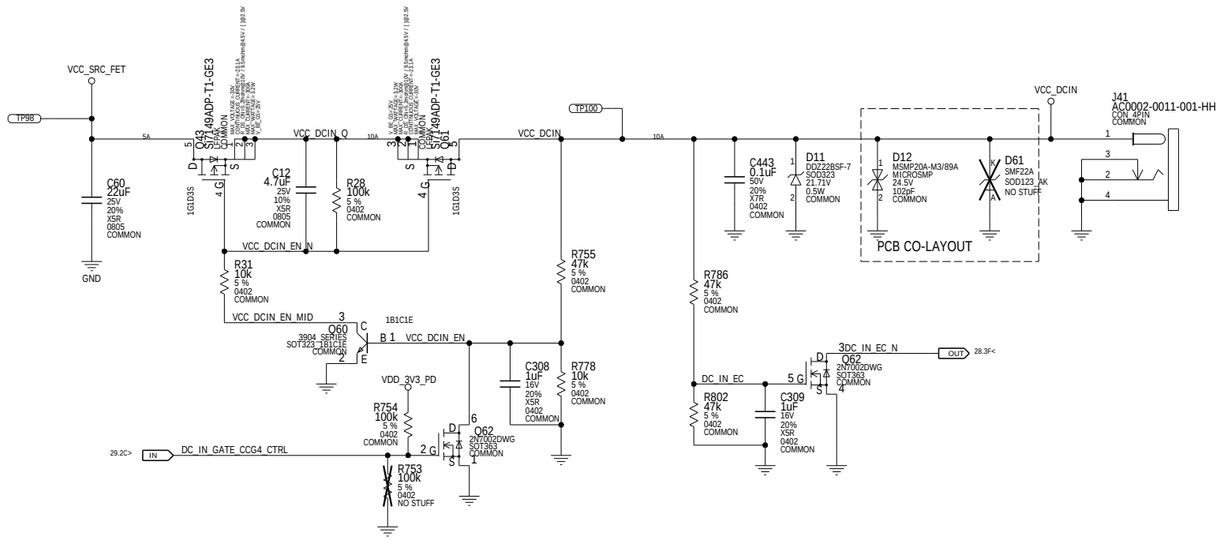
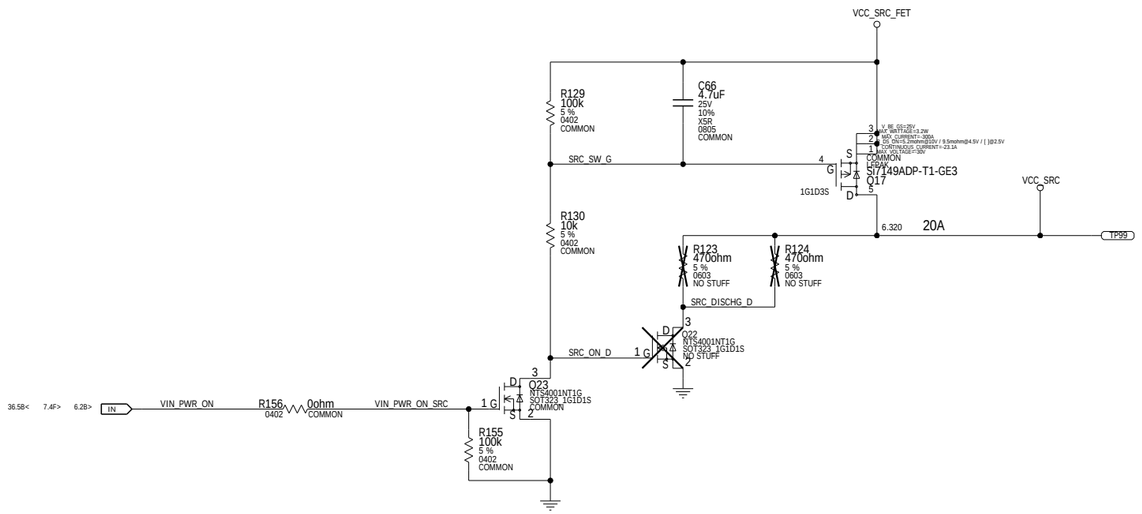
Input Power Source

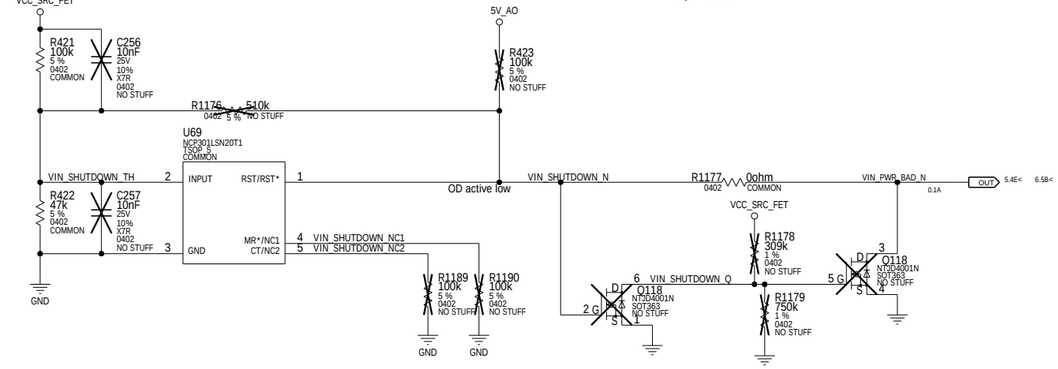


Input control

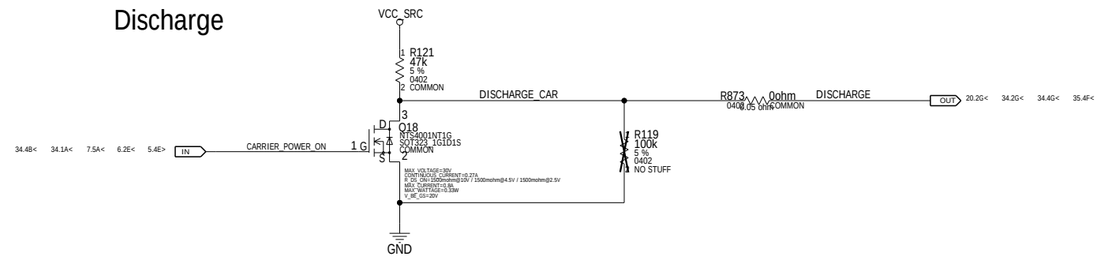


VIN LOSS DETECTION

Vth- = (100k/47k+1)*2.0V = 6.25V
Vth+ = (100k/47k+1)*(2.0+0.1) = 6.56V
Vhys = 0.31V



Discharge



ASSEMBLY	Jetson Orin Developer Kit Carrier Board
PAGE DETAIL	DC JACK

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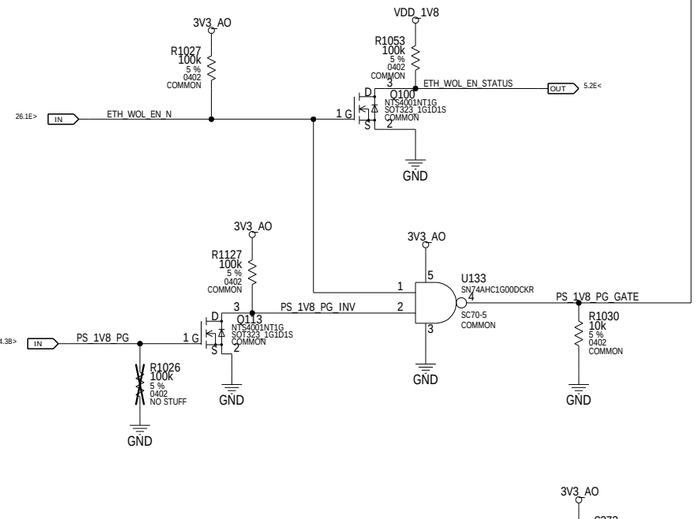
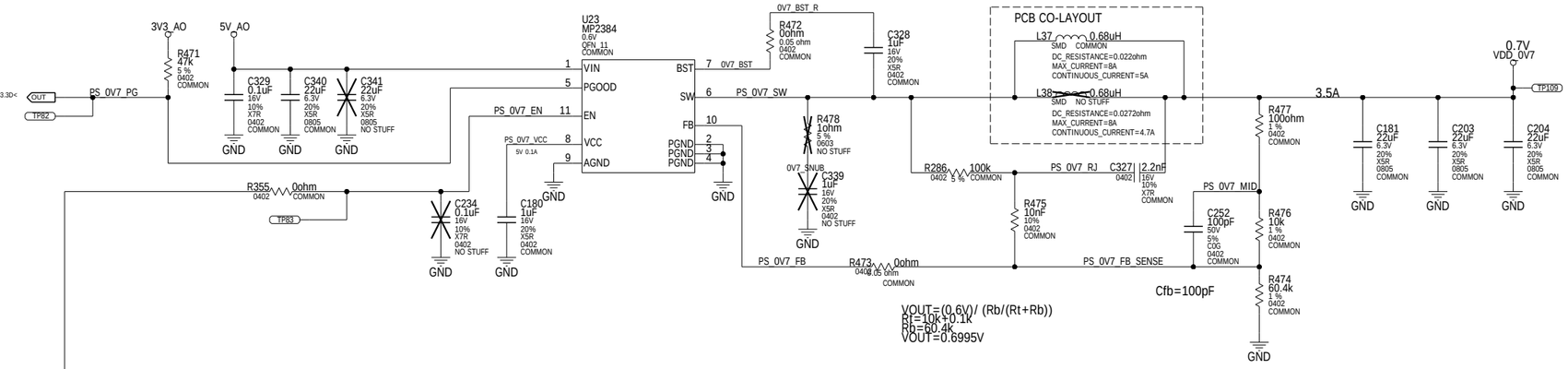
0V7

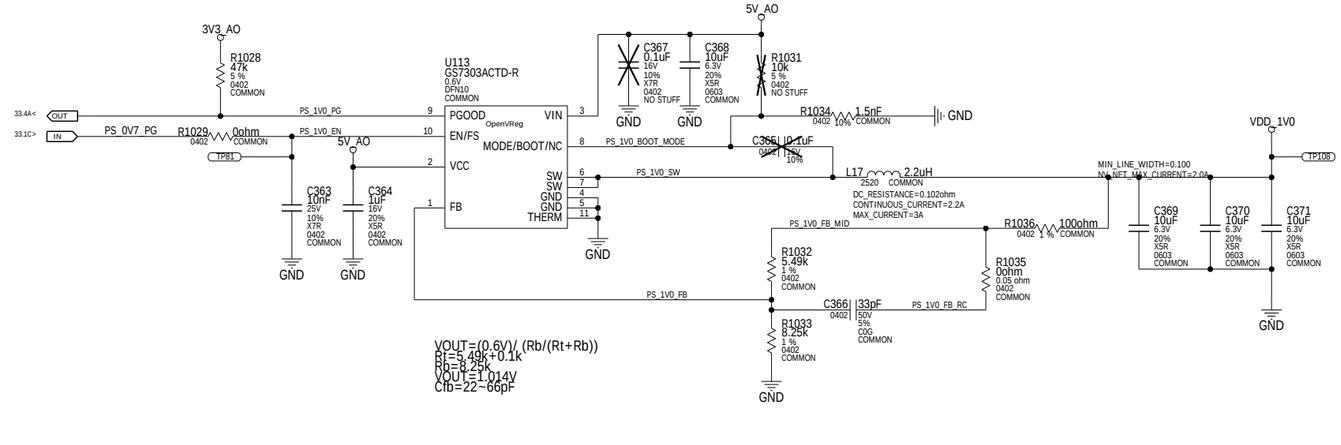
WOL from OFF

Jumper open: disable WOL (default)
Jumper short: enable WOL

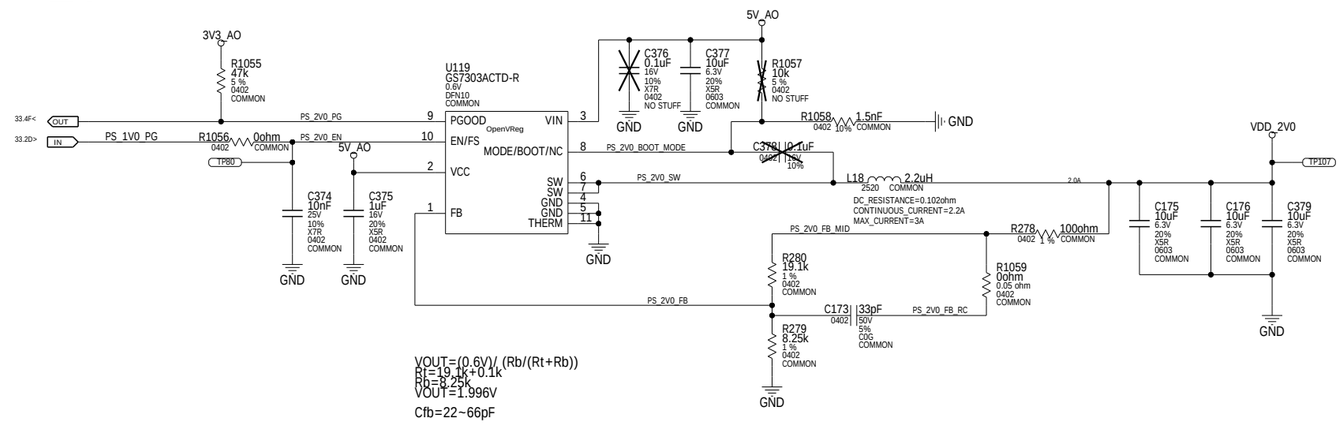




1V



2V



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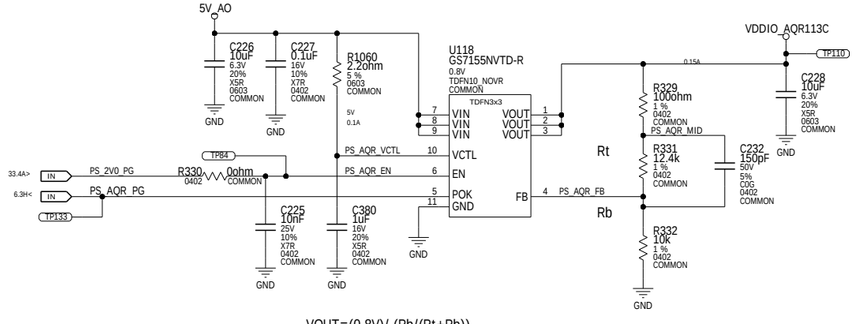

ASSEMBLY	Jetson Orin Developer Kit Carrier Board
PAGE DETAIL	System Power 0V7 1V0 2V0

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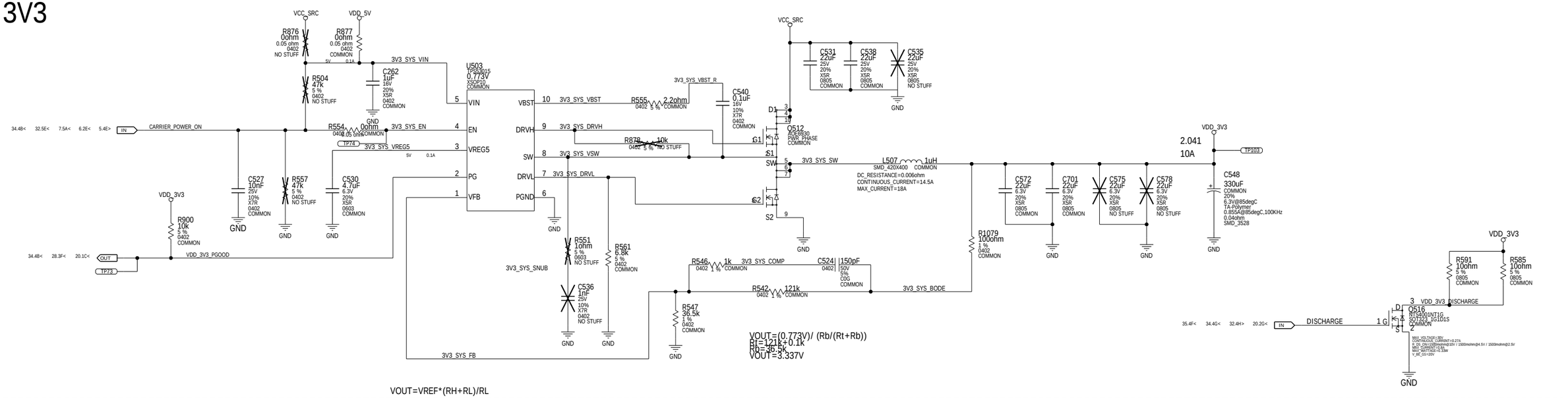
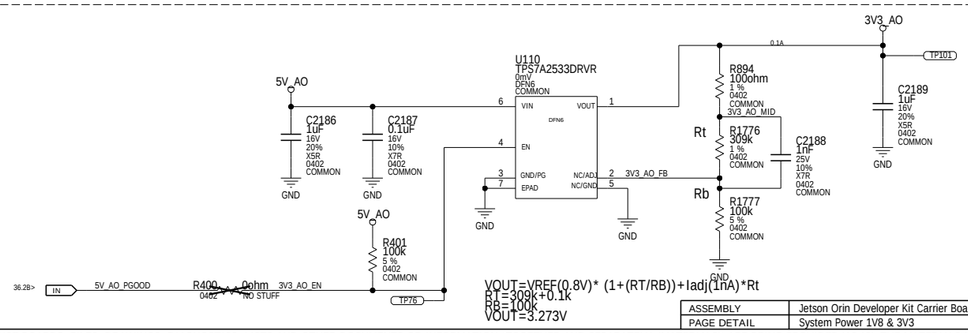
3V3



1V8

3V3_AO



ASSEMBLY	Jetson Orin Developer Kit Carrier Board
PAGE DETAIL	System Power 1V8 & 3V3

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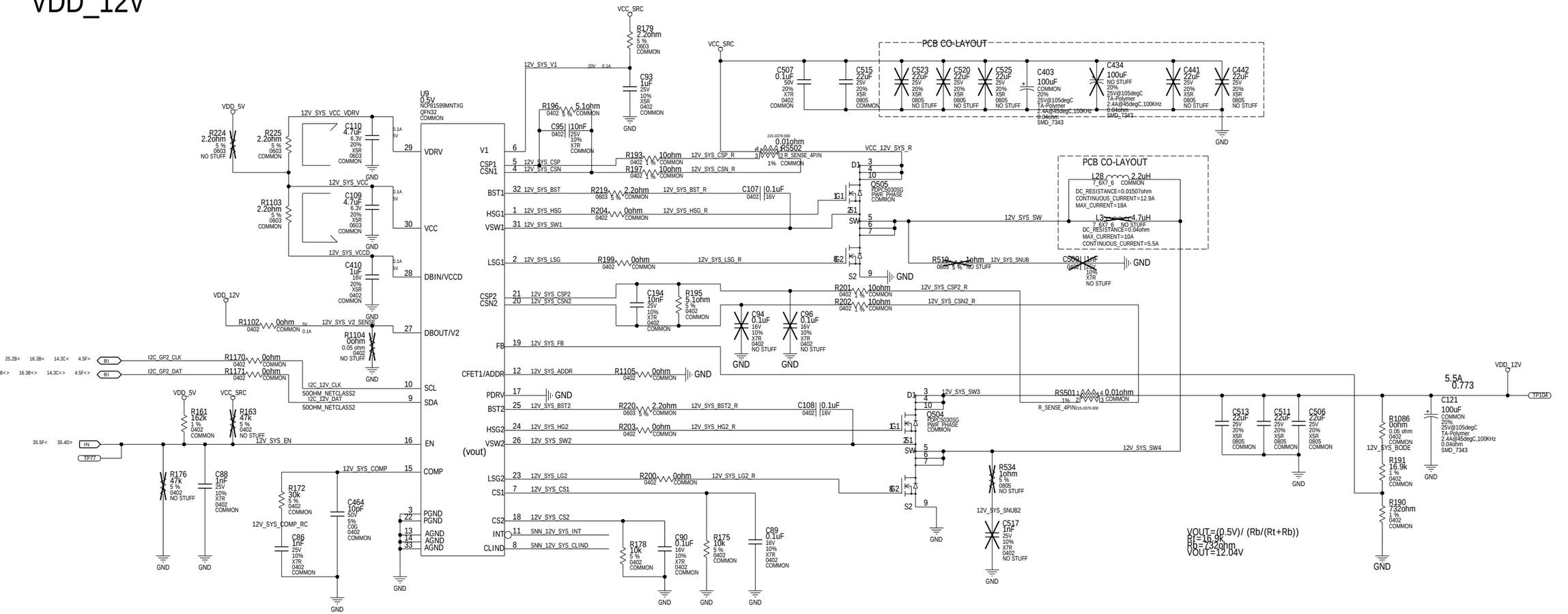
VDD_12V



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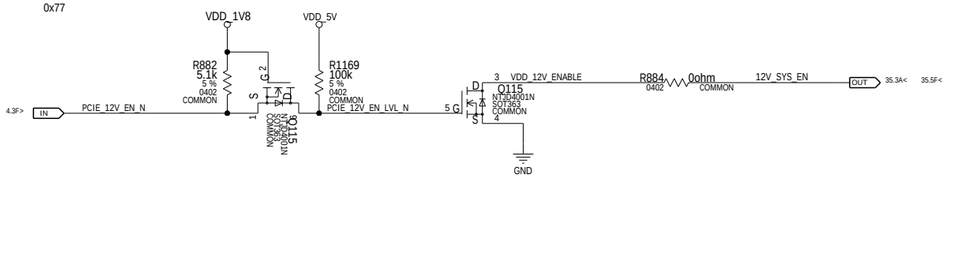

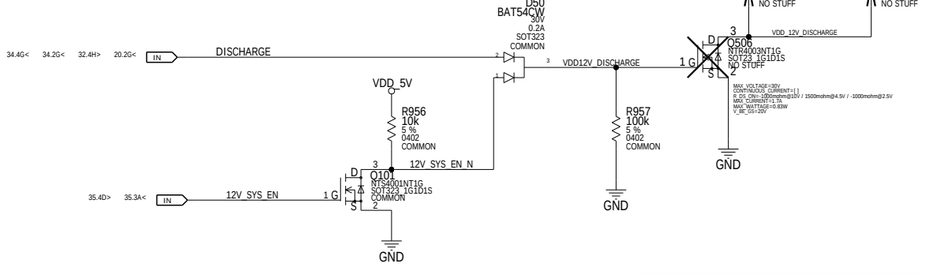

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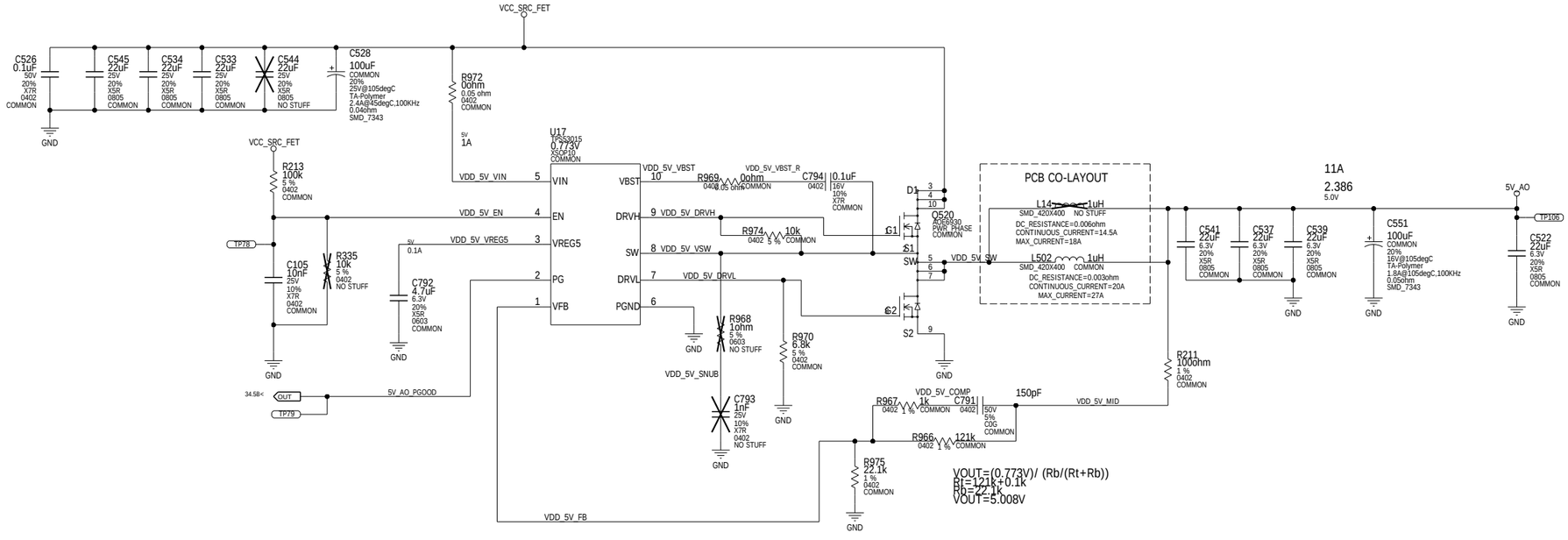
5V_AO



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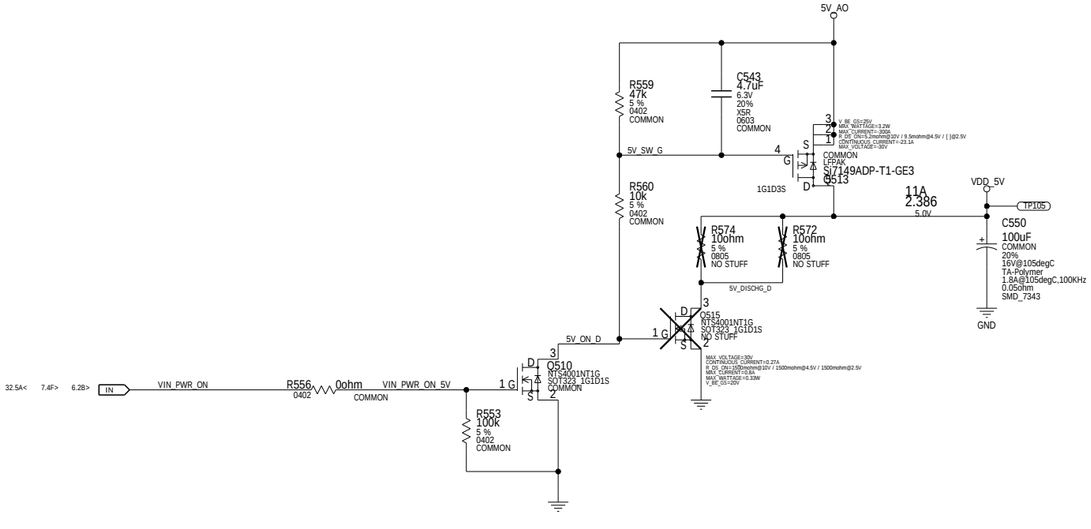

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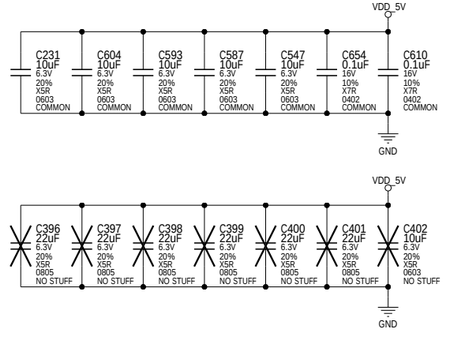

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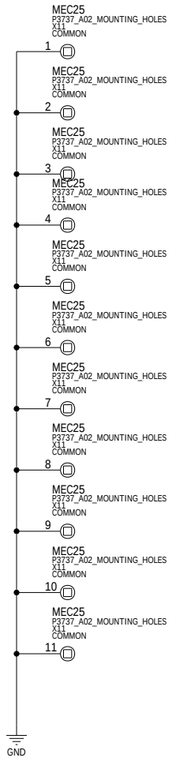

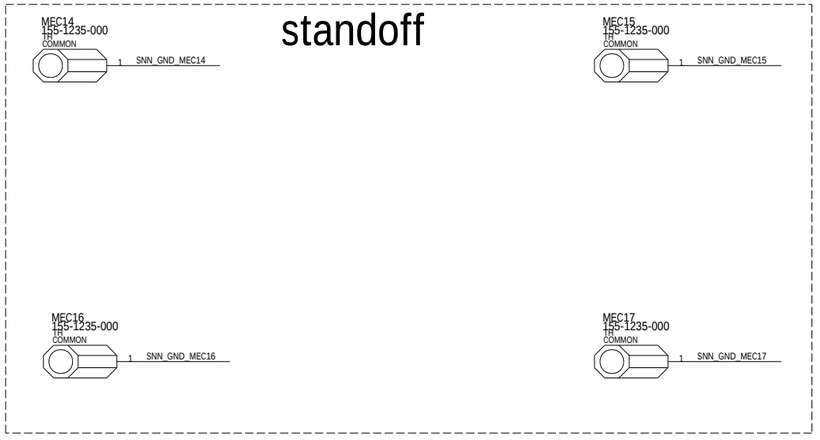

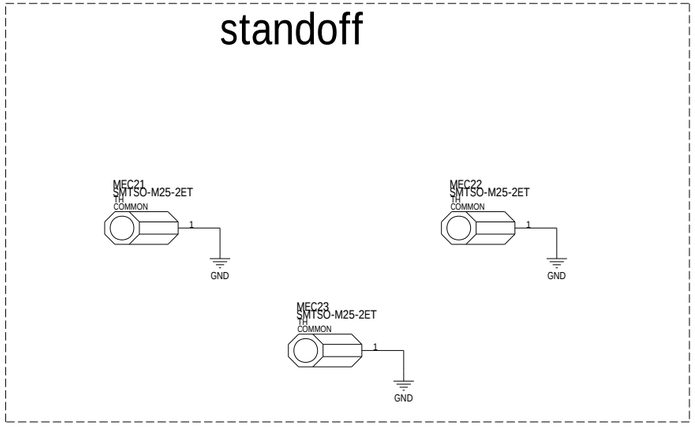

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