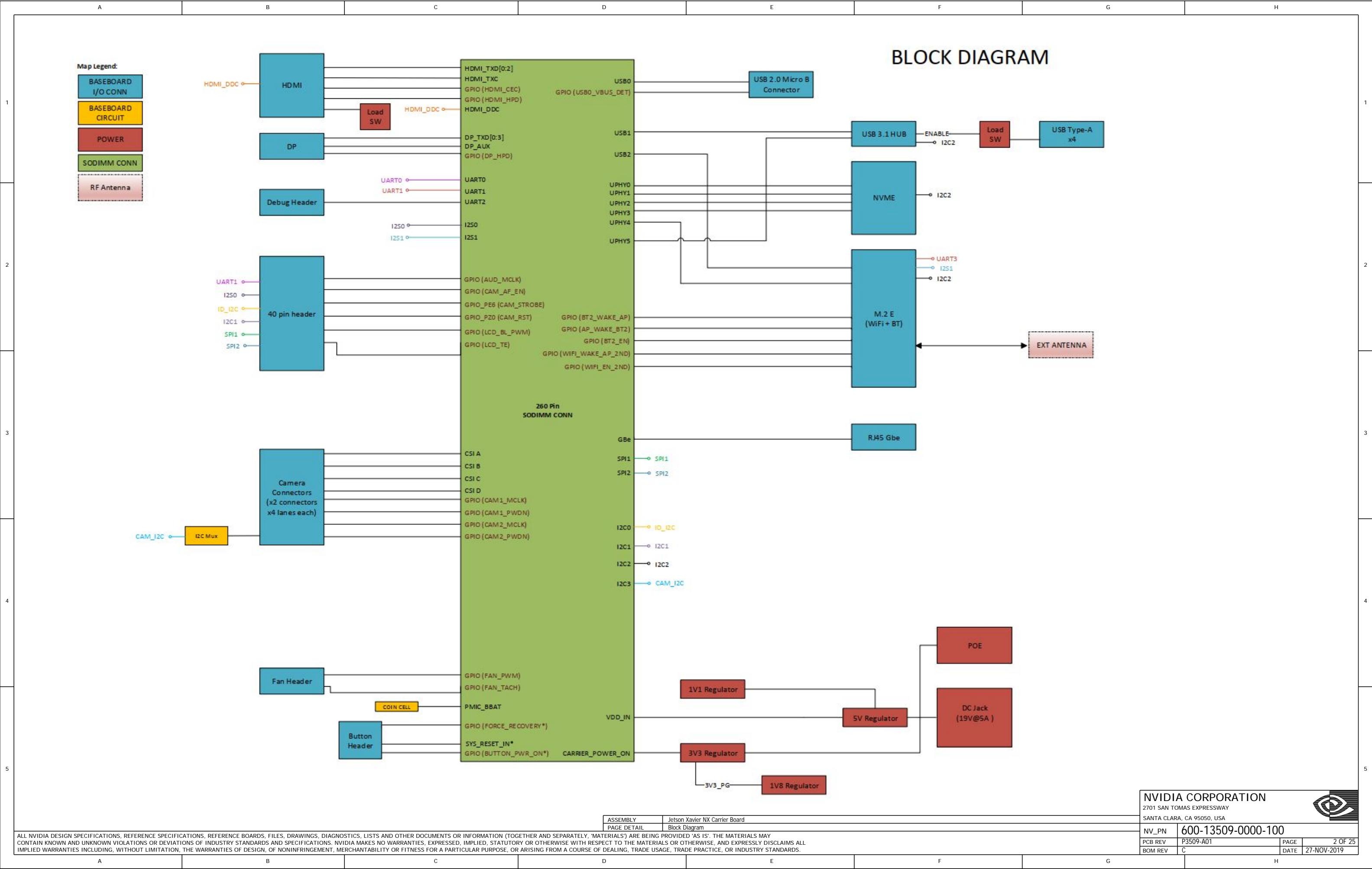


Jetson Xavier NX Carrier Board

HDMI, DP, USB3.1, M.2 Key-E & M, GBe, CAM

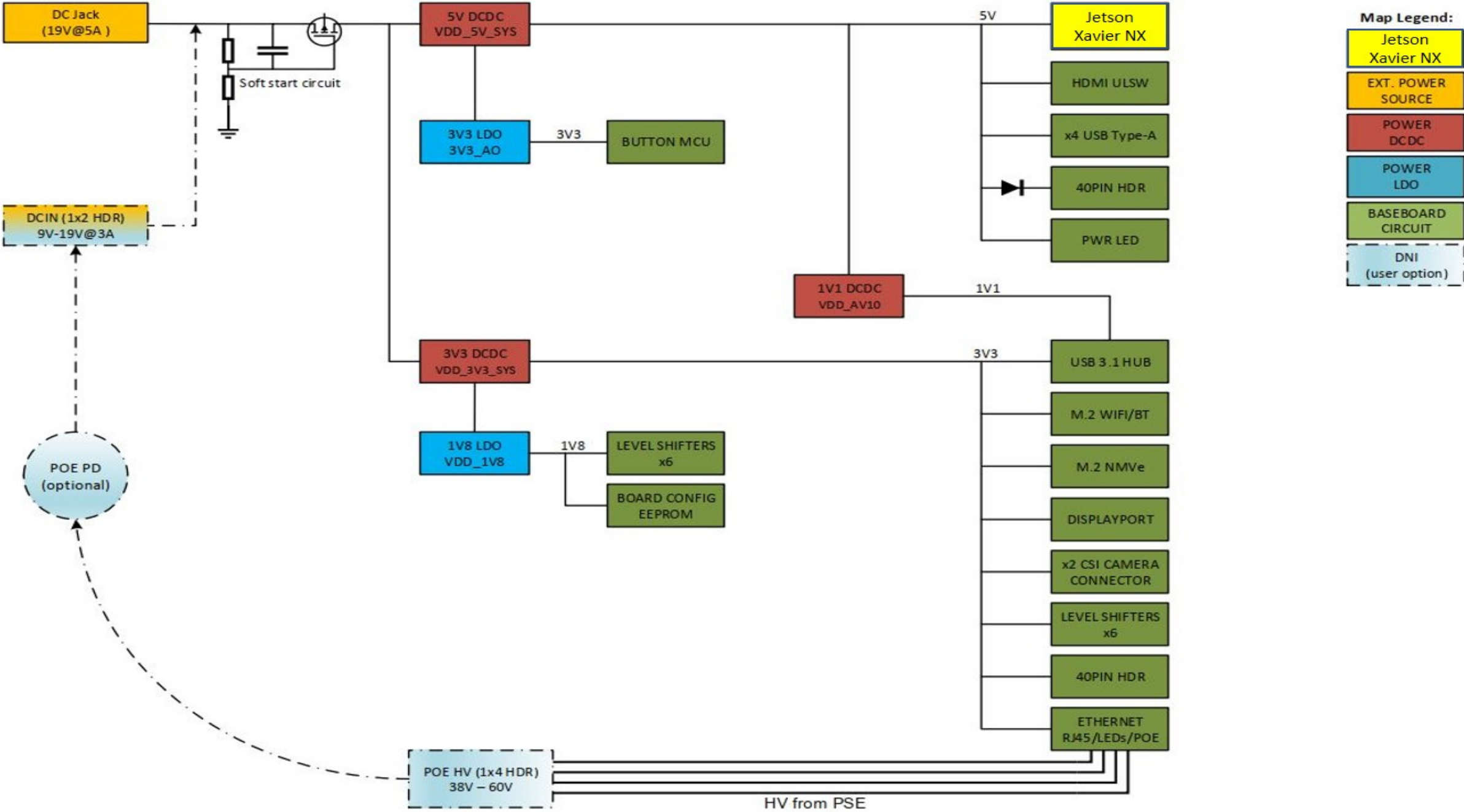
Page	Description
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1	Table of Contents
2	Block Diagram
3	Power Tree
4	SODIMM Connector 1/3
5	SODIMM Connector 2/3
6	SODIMM Connector 3/3
7	DC_JACK
8	PRE-REG 5V
9	PRE-REG 3V3
10	1V8 LDO & 3V3 AO Rails
11	BUTTON MCU
12	MICRO USB2.0
13	USB3.1 HUB
14	USB3.1 Type-A x2 (A)
15	USB3.1 Type-A x2 (B)
16	HDMI
17	DISPLAY PORT
18	CAMERA
19	ETHERNET
20	M.2 KEY-E (WIFI/BT)
21	M.2 KEY-M (NVME)
22	40PIN GPIO Expansion HDR
23	FAN, DEBUG and EEPROM
24	MECHANICAL
25	REVISION HISTORY



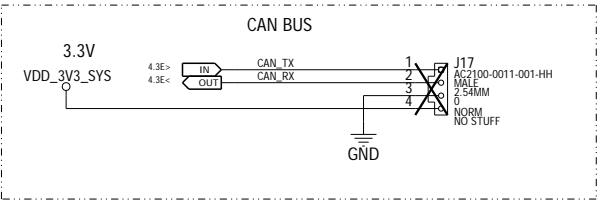
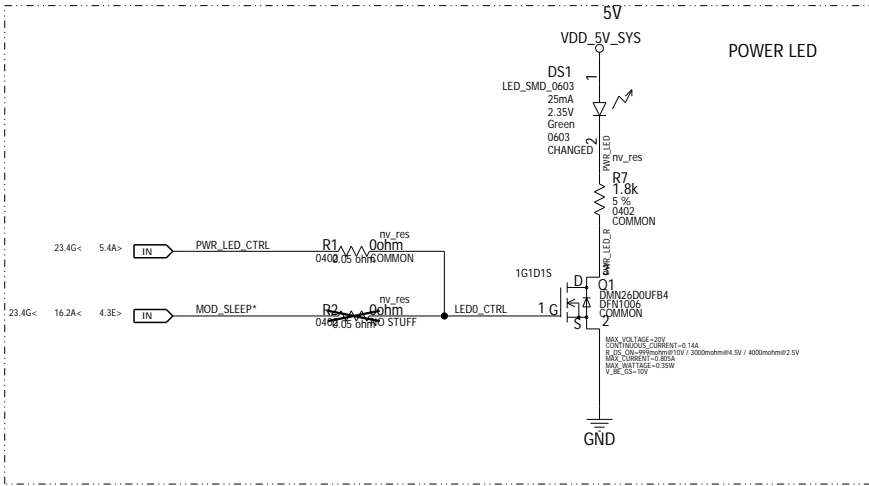
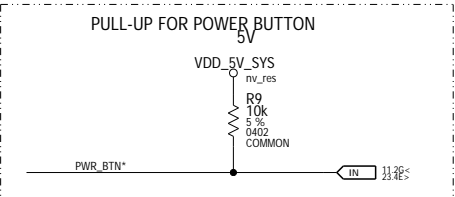
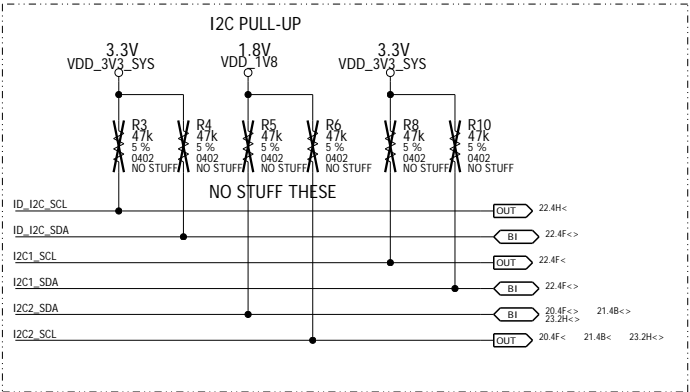
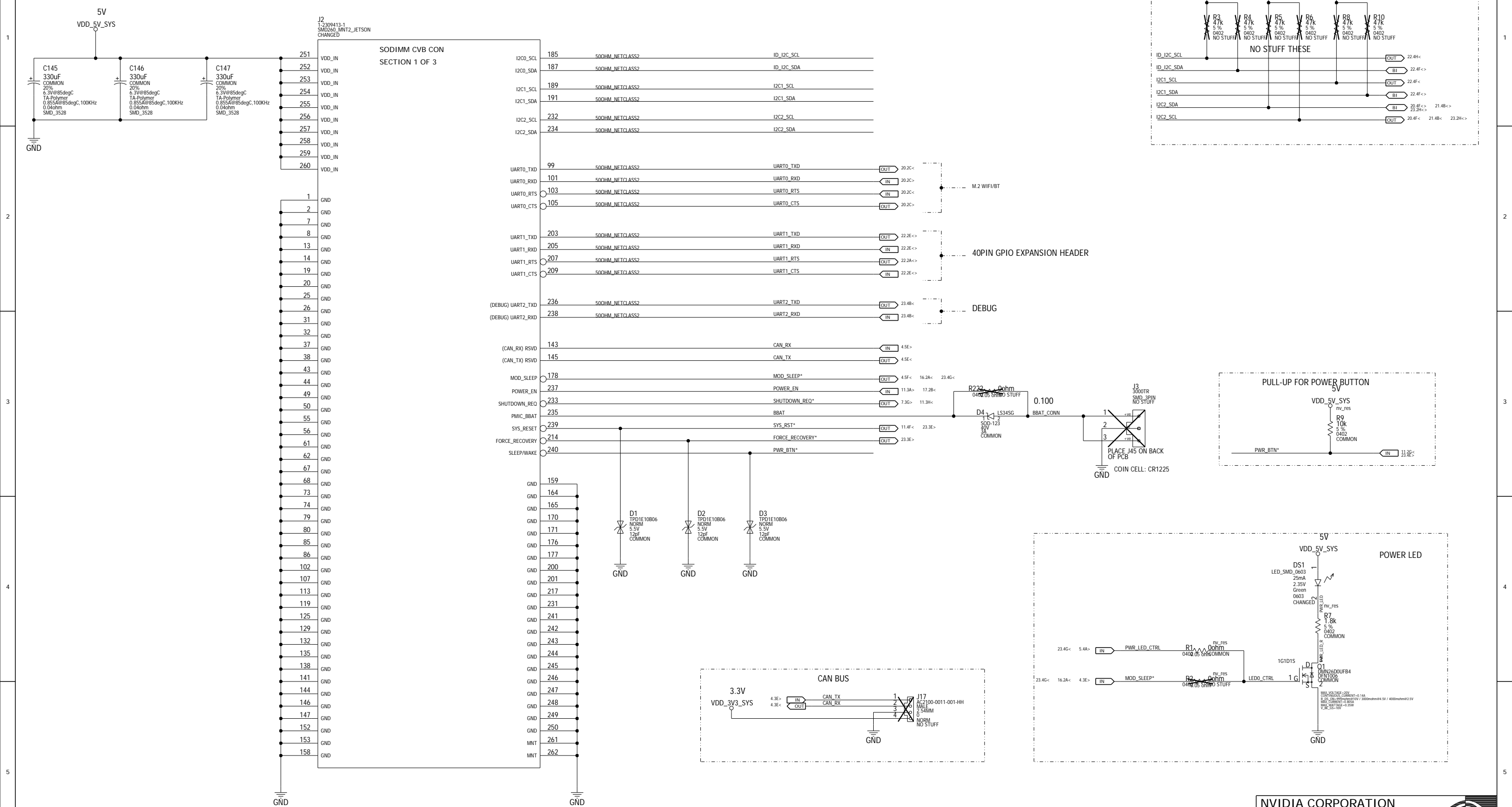
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Power Topology



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UART, I2C, CAN and GPIOs



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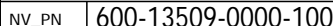
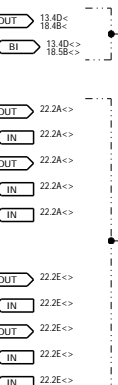
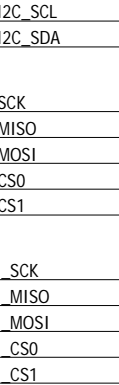
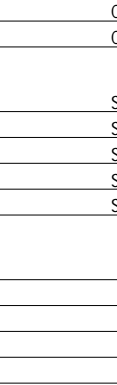
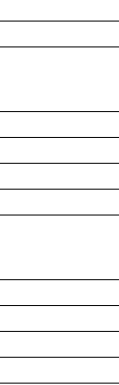
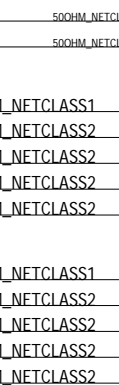
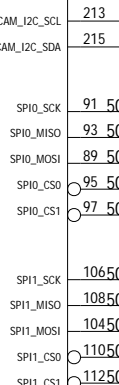
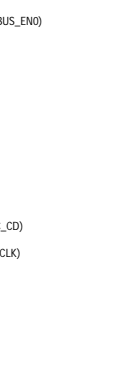
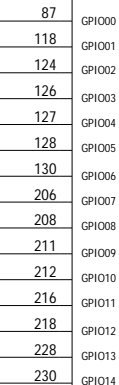
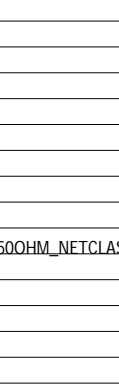
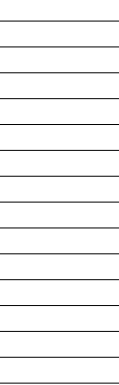
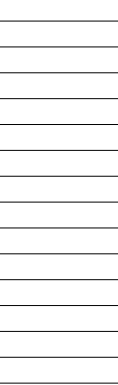
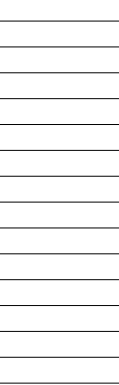
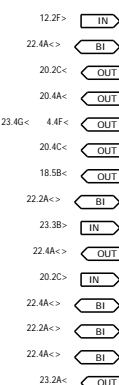
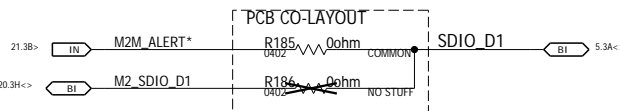
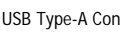
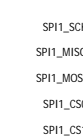
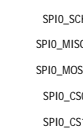
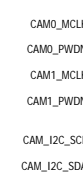
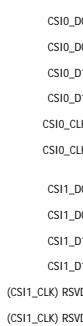
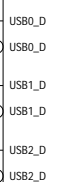
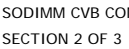
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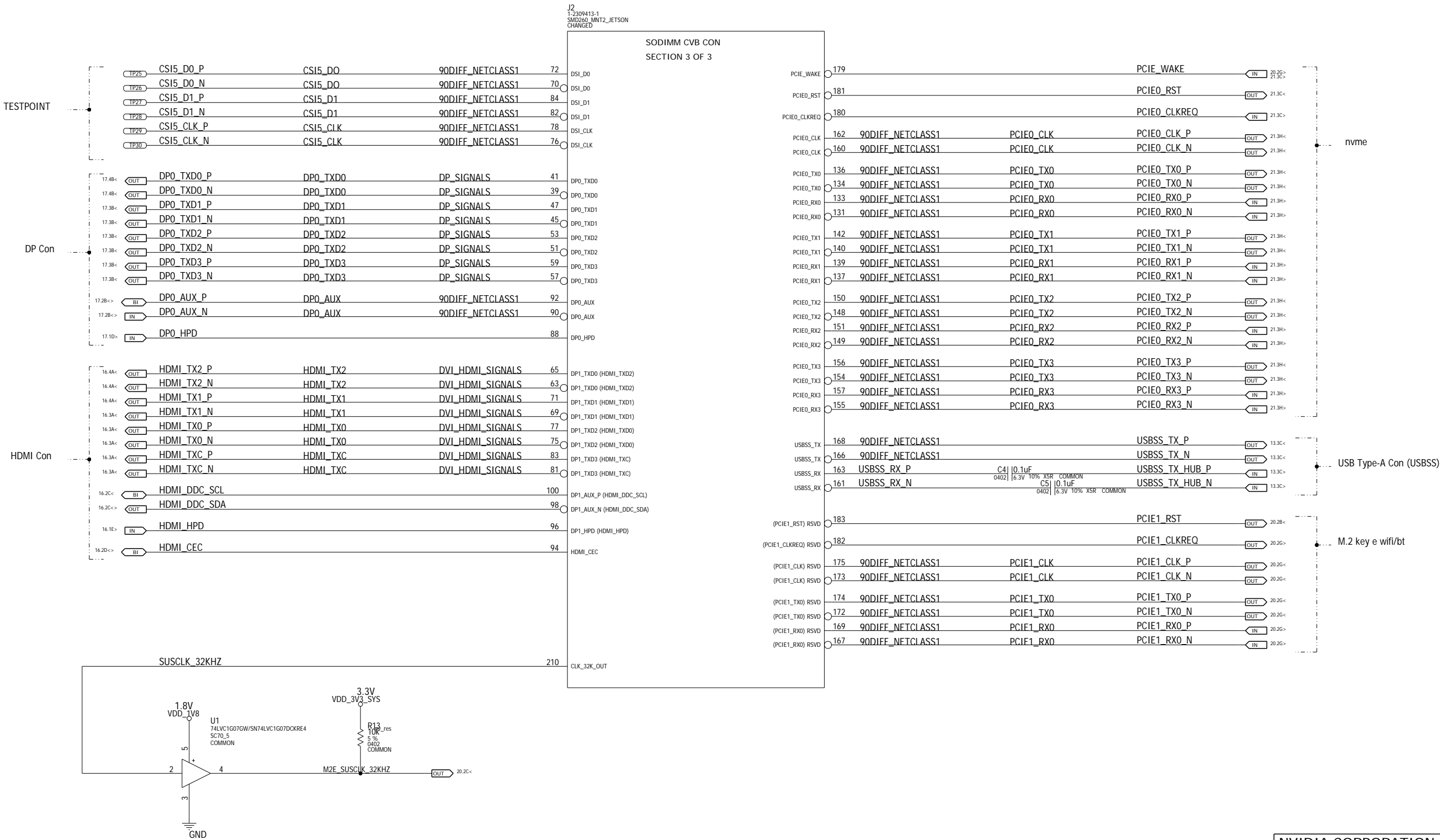
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GPIOs, USB2.0, I2S, SPI, GBe and CSI



CSI (contn'd), HDMI, DP, DSI, USBSS and PCIE



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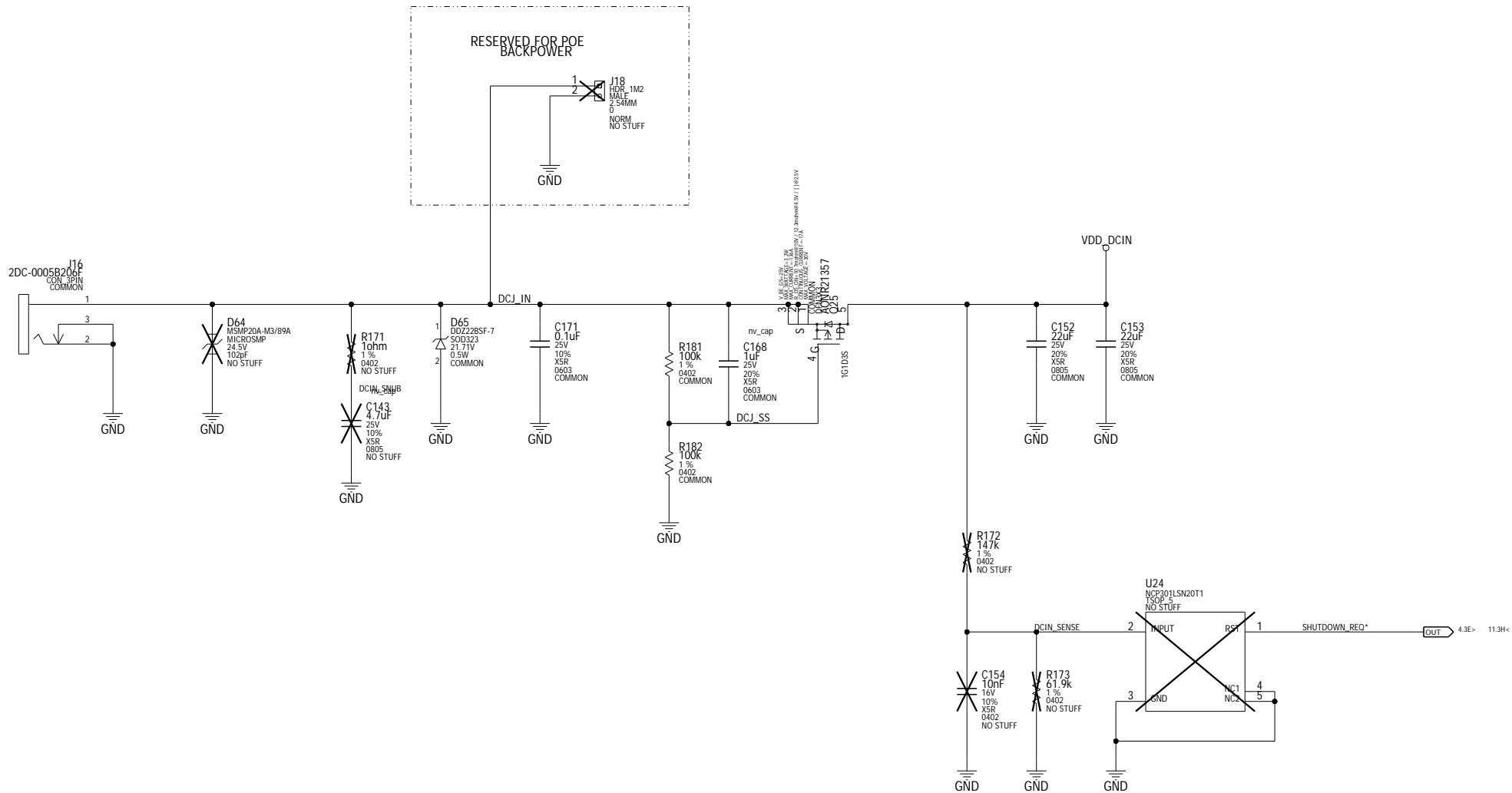
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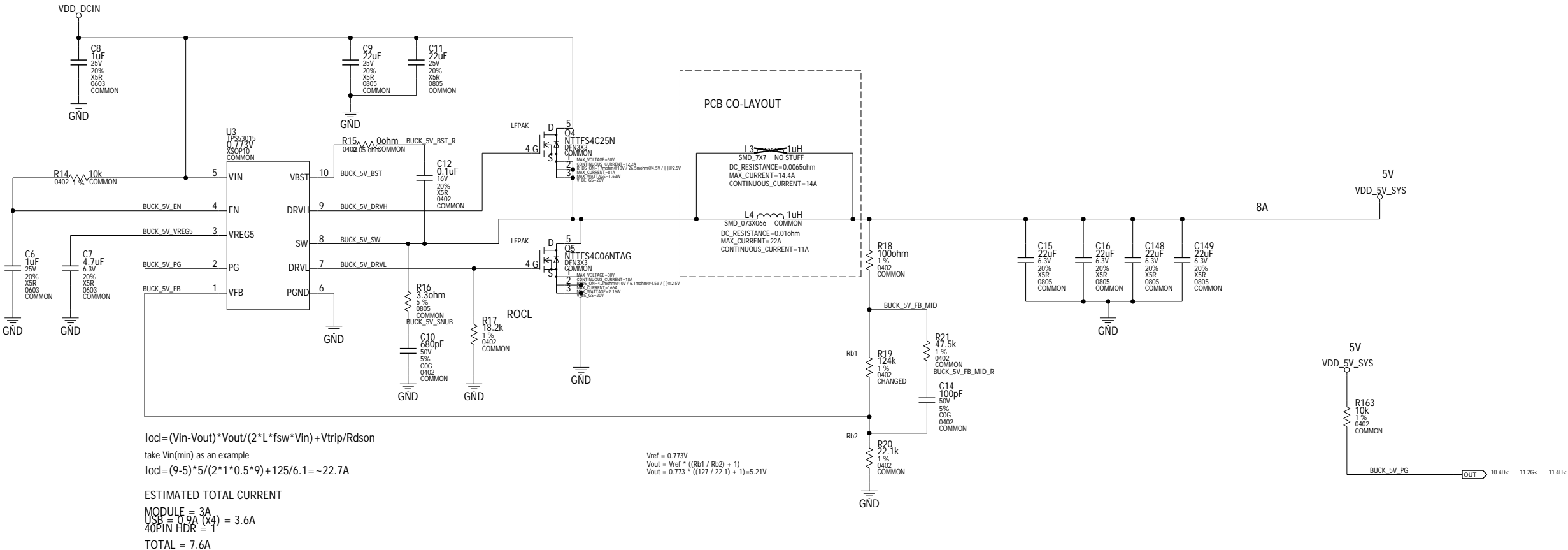
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DC JACK POWER PATH



PRE-REG 5V DCDC



ASSEMBLY	Jetson Xavier NX Carrier Board
PAGE DETAIL	PRE-REG 5V

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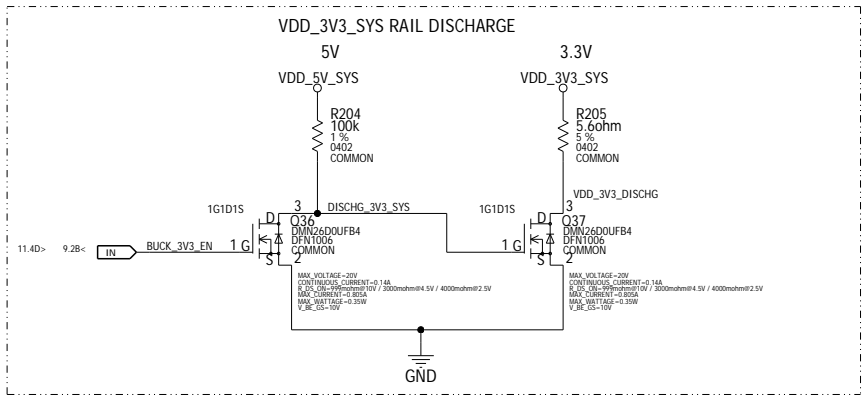
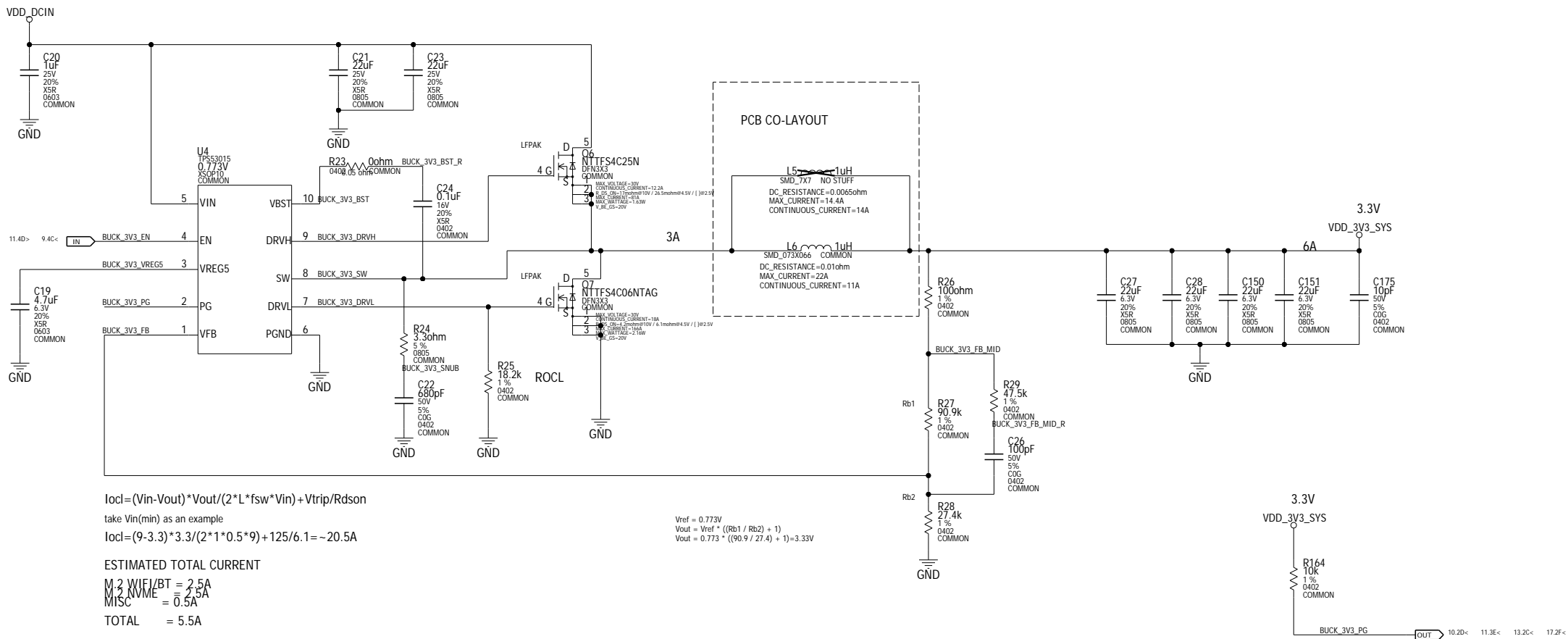
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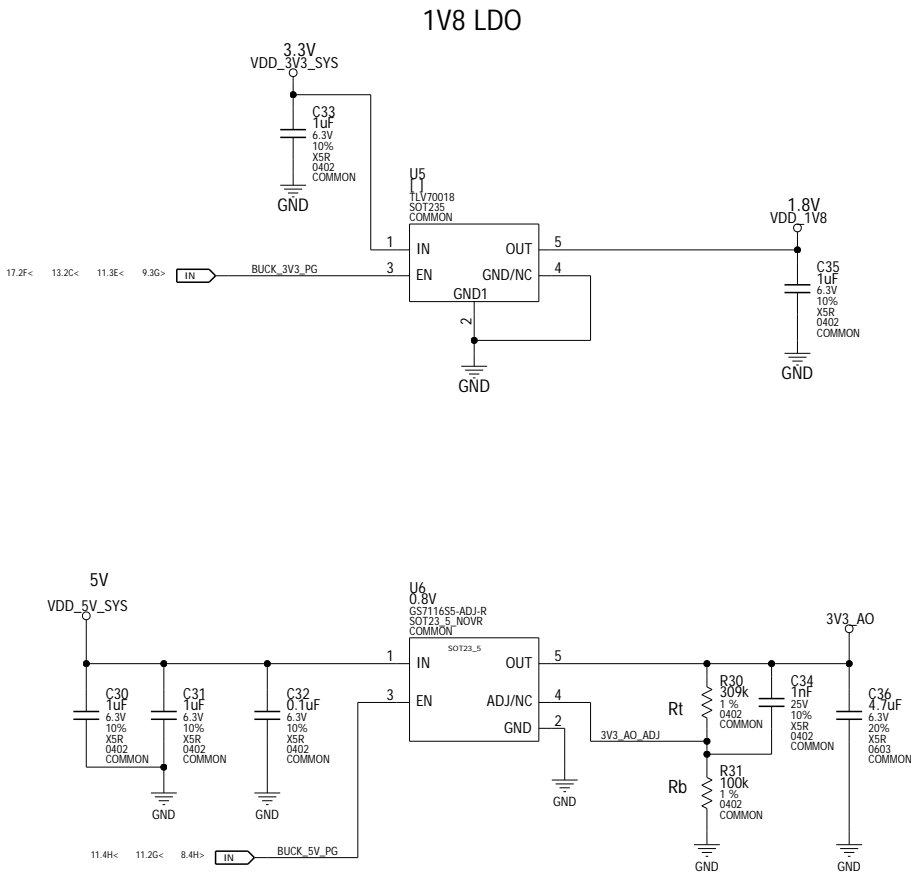
PCB REV	P3509-A01	PAGE	8 OF 25
BOM REV	C	DATE	27-NOV-2019



PRE-REG 3V3 DCDC



1V8 LDO AND 3V3 AO RAILS



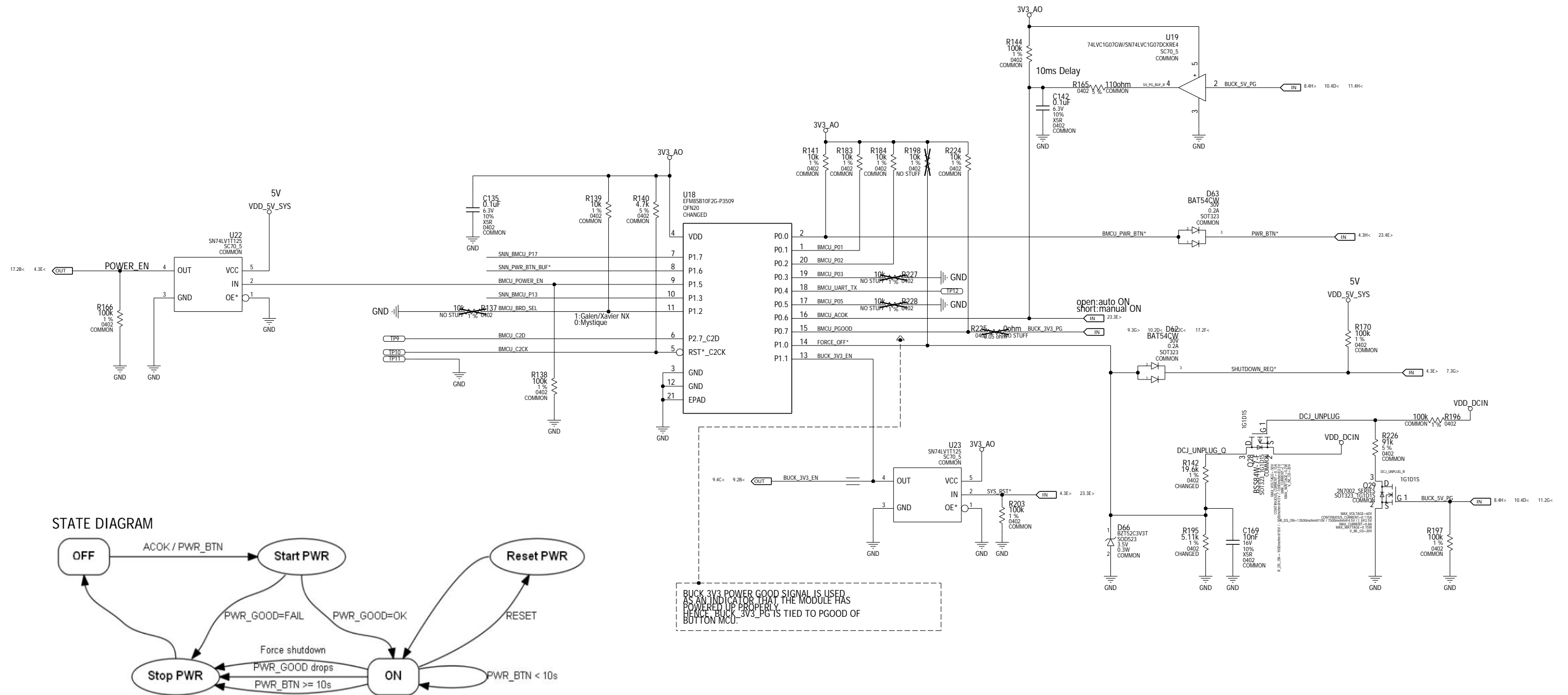
$$V_{OUT} = V_{REF}(0.8V) * (1 + (R_T/R_B)) + I_{adj}(1nA) * R_T$$

$$R_T = 309k$$

$$R_B = 100k$$

$$V_{OUT} = 3.272V$$

BUTTON MCU FOR POWER UP



ASSEMBLY	Jetson Xavier NX Carrier Board
PAGE DETAIL	BUTTON MCU

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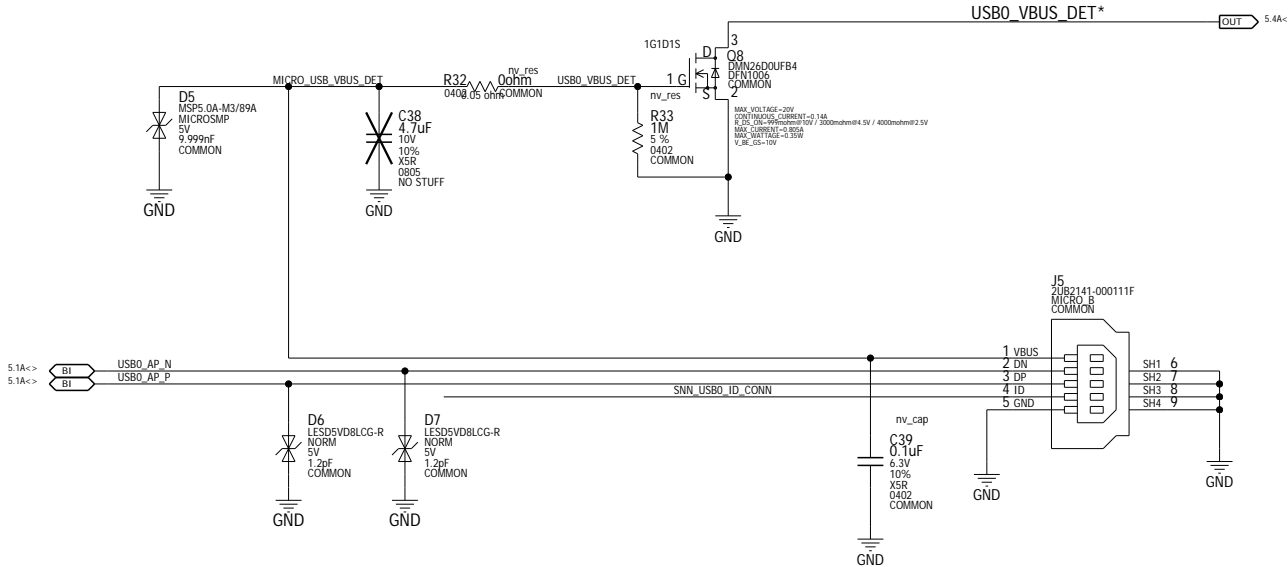
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PCB REV	P3509-A01	PAGE	11 OF 25
BOM REV	C	DATE	27-NOV-2019



MICRO USB (DEVICE MODE ONLY)



ASSEMBLY	Jetson Xavier NX Carrier Board
PAGE DETAIL	MICRO USB2.0

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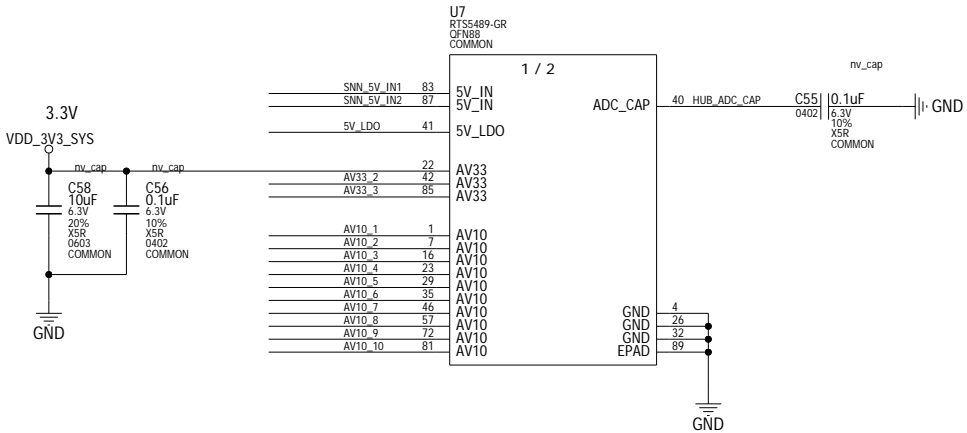
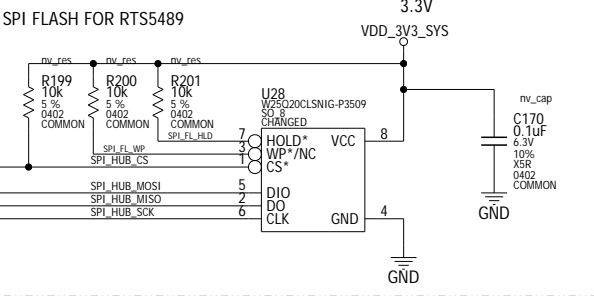
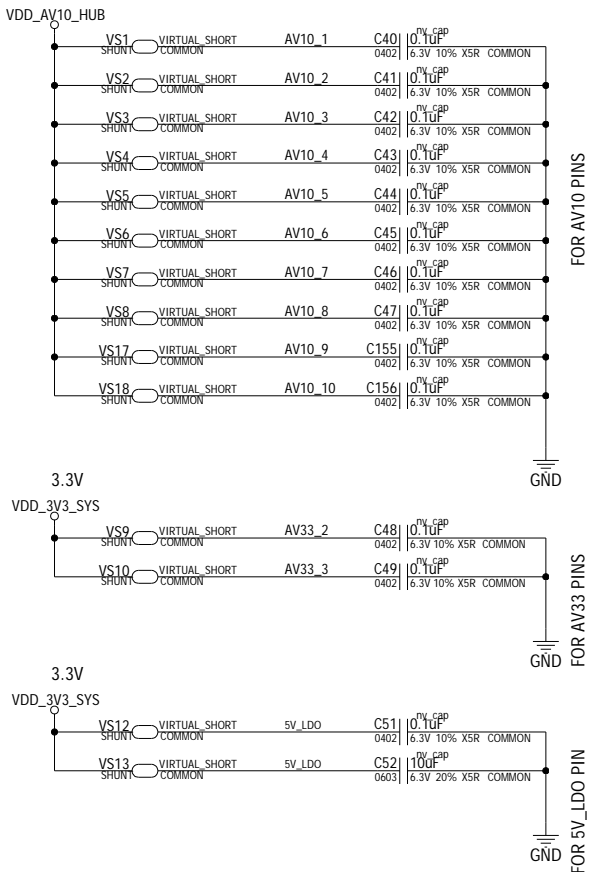
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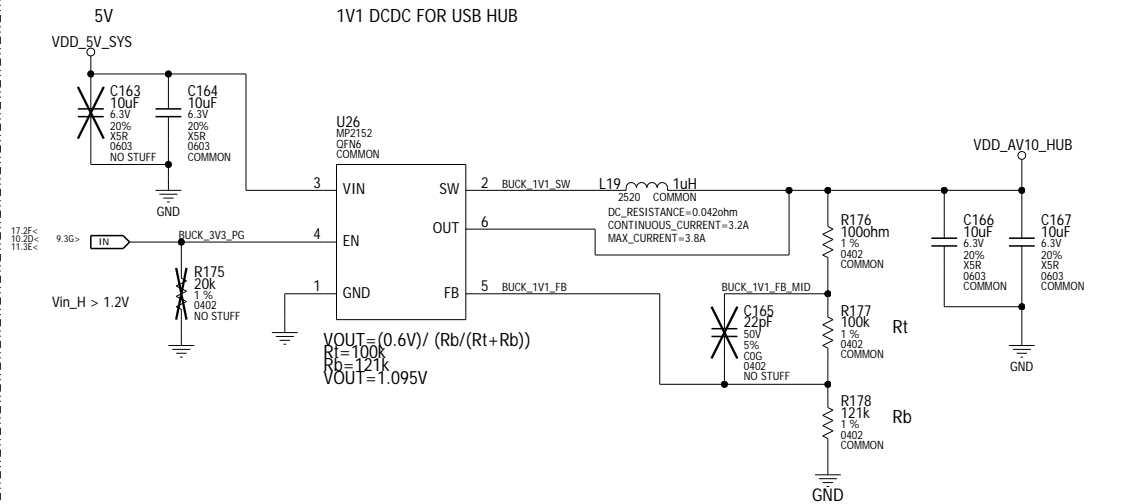


USB3.1 GEN2 HUB x4 PORTS

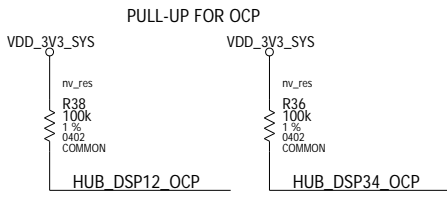
DECOUPLING CAPS



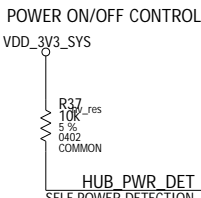
1V1 DCDC FOR USB HUB



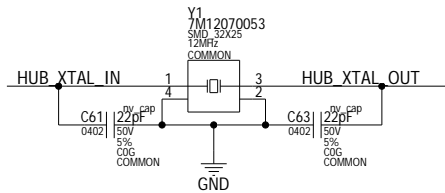
PULL-UP FOR OCP



POWER ON/OFF CONTROL



12MHz CRYSTAL FOR RTS5411S SYSTEM CLOCK



5.1A<>	BI	USB1_AP_P	47	USP_D_P	49	90DIFF_NETCLASS1	DSP1_DP	BI	14.2A<>
5.1A<>	BI	USB1_AP_N	48	USP_D_N	50	90DIFF_NETCLASS1	DSP1_DN	BI	14.2A<>
6.3G<	OUT	USBSS_TX_HUB_P	77	USP_TX_P	12	90DIFF_NETCLASS1	DSP1_SSTX_P	OUT	14.3A<
6.4G<	OUT	USBSS_TX_HUB_N	78	USP_TX_N	13	90DIFF_NETCLASS1	DSP1_SSTX_N	OUT	14.3A<
6.3G<	IN	USBSS_TX_P	74	USP_RX_P	9	90DIFF_NETCLASS1	DSP1_SSRX_P	IN	14.2A>
6.3G<	IN	USBSS_TX_N	73	USP_RX_N	8	90DIFF_NETCLASS1	DSP1_SSRX_N	IN	14.2A>
		SPI_HUB_MISO	58	SPI_MISO	51	90DIFF_NETCLASS1	DSP2_DP	BI	14.4A<>
		SPI_HUB_MOSI	59	SPI_MOSI	52	90DIFF_NETCLASS1	DSP2_DN	BI	14.4A<>
		SPI_HUB_SCK	60	SPI_SCK	5	90DIFF_NETCLASS1	DSP2_SSTX_P	OUT	14.4A<
		SPI_HUB_CS	61	SPI_SCs_N	6	90DIFF_NETCLASS1	DSP2_SSTX_N	OUT	14.4A<
		SNN_HUB_I2C_CLK	17	I2C_CLK	3	90DIFF_NETCLASS1	DSP2_SSRX_P	IN	14.4A>
		SNN_HUB_I2C_DAT	66	I2C_DAT	2	90DIFF_NETCLASS1	DSP2_SSRX_N	IN	14.4A>
		SNN_HUB_I2C_INT#	67	I2C_INT*					
18.4B<	5.4G>	CAM_I2C_SCL	69	SM_CLK	53	90DIFF_NETCLASS1	DSP3_DP	BI	15.2B<>
18.5B<>	5.4G<>	BI	70	SM_DAT	54	90DIFF_NETCLASS1	DSP3_DN	BI	15.2B<>
14.1E>	IN	HUB_DSP12_OCP	21	DSP1_OCP	33	90DIFF_NETCLASS1	DSP3_SSTX_P	OUT	15.3B<
15.1E>	IN	HUB_DSP34_OCP	62	DSP2_OCP	34	90DIFF_NETCLASS1	DSP3_SSTX_N	OUT	15.3B<
		HUB_XTAL_IN	43	XTLI	31	90DIFF_NETCLASS1	DSP3_SSRX_P	IN	15.2B>
		HUB_XTAL_OUT	44	XTLO	30	90DIFF_NETCLASS1	DSP3_SSRX_N	IN	15.2B>
		GND	45	RREF	55	90DIFF_NETCLASS1	DSP4_DP	BI	15.4B<>
		HUB_PWR_DET	39	LOC_PWR	56	90DIFF_NETCLASS1	DSP4_DN	BI	15.4B<>
		SNN_HUB_GPIO14	71	GPIO14	27	90DIFF_NETCLASS1	DSP4_SSTX_P	OUT	15.4B<
		SNN_HUB_ADC_IN0	37	ADC_IN0	28	90DIFF_NETCLASS1	DSP4_SSTX_N	OUT	15.4B<
		SNN_HUB_ADC_IN1	38	ADC_IN1	25	90DIFF_NETCLASS1	DSP4_SSRX_P	IN	15.4B>
		SNN_HUB_NC01	10	NC	24	90DIFF_NETCLASS1	DSP4_SSRX_N	IN	15.4B>
		SNN_HUB_NC02	11	NC					
		SNN_HUB_NC03	14	NC					
		SNN_HUB_NC04	15	NC					
		SNN_HUB_NC05	75	NC					
		SNN_HUB_NC06	76	NC					
					19		HUB_DSP12_PWR_EN	OUT	14.1C<
					64				
					18		HUB_DSP34_PWR_EN	OUT	15.1C<
					65				
					79		SNN_HUB_NC07		
					80		SNN_HUB_NC08		
					82		SNN_HUB_NC09		
					84		SNN_HUB_NC10		
					86		SNN_HUB_NC11		
					88		SNN_HUB_NC12		

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

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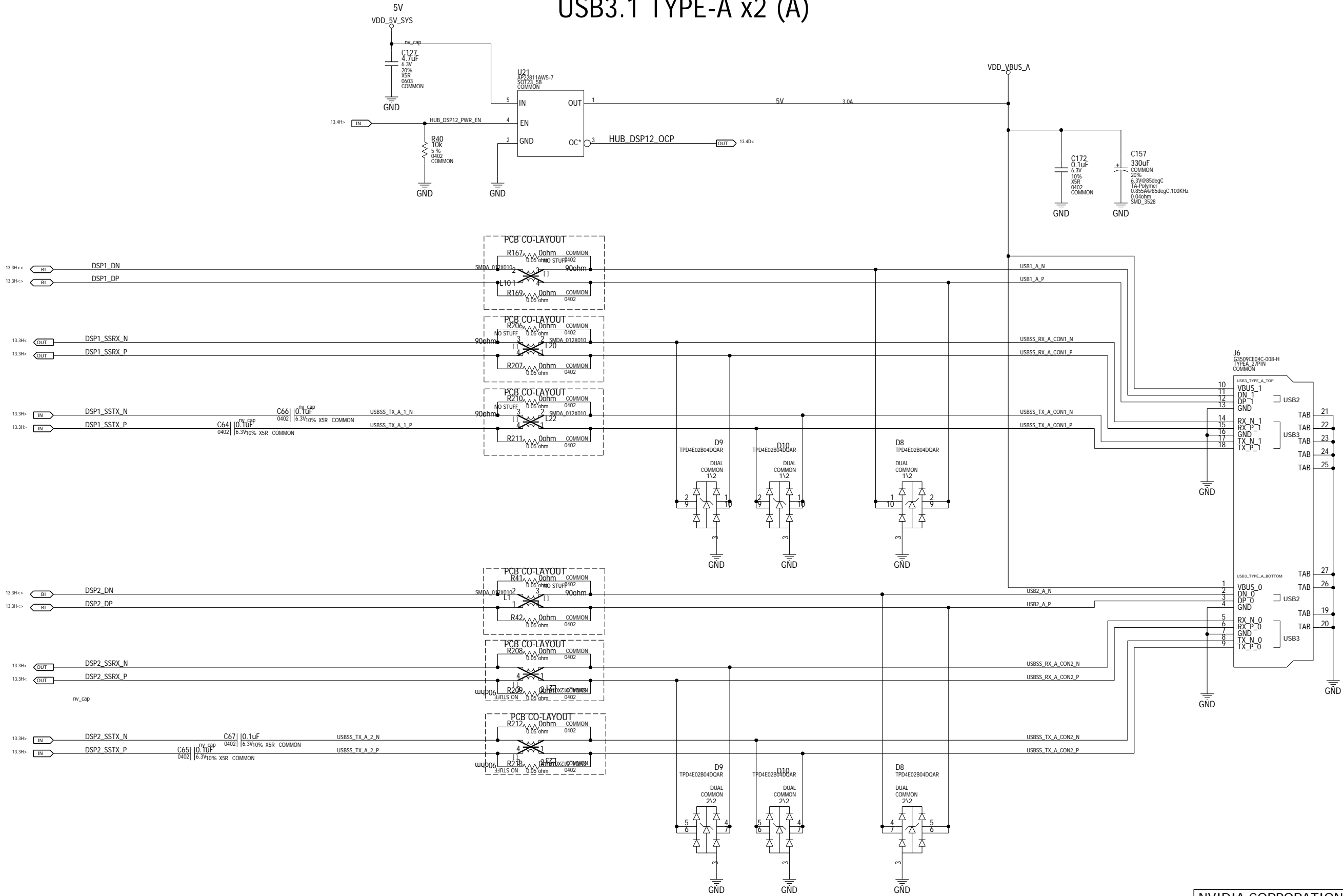
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PAGE 13 OF 25

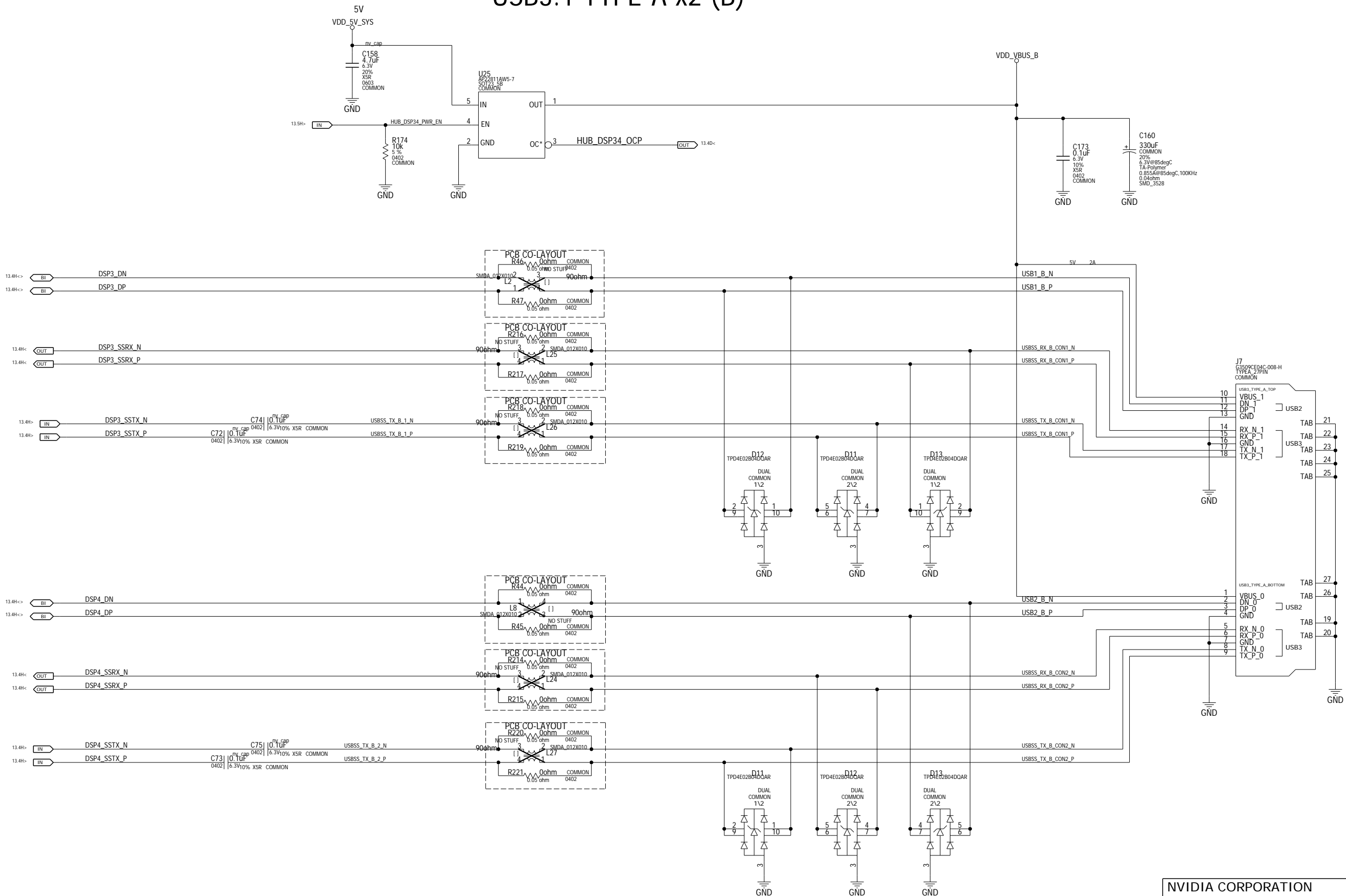
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USB3.1 TYPE-A x2 (A)

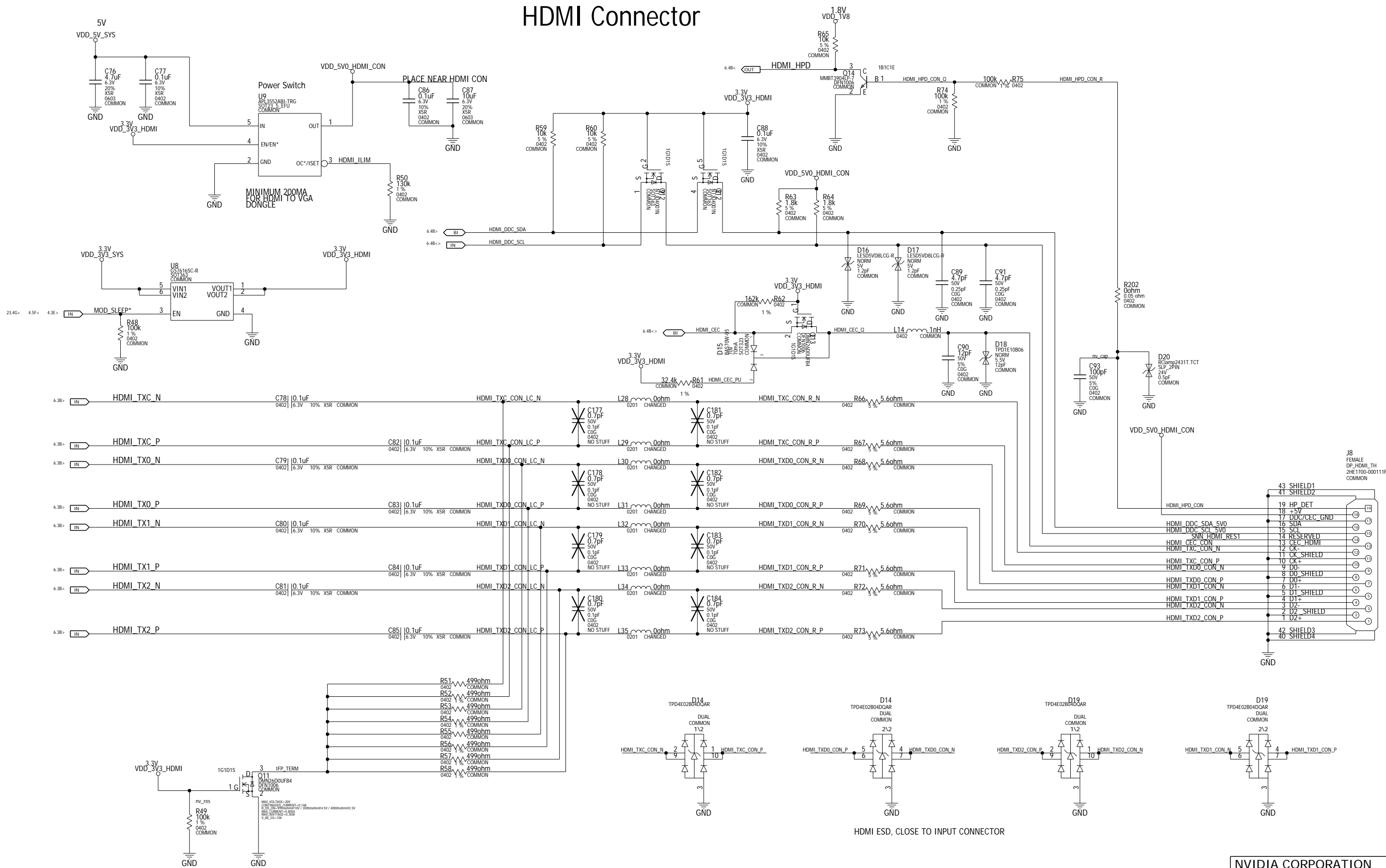


USB3.1 TYPE-A x2 (B)



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HDMI Connector



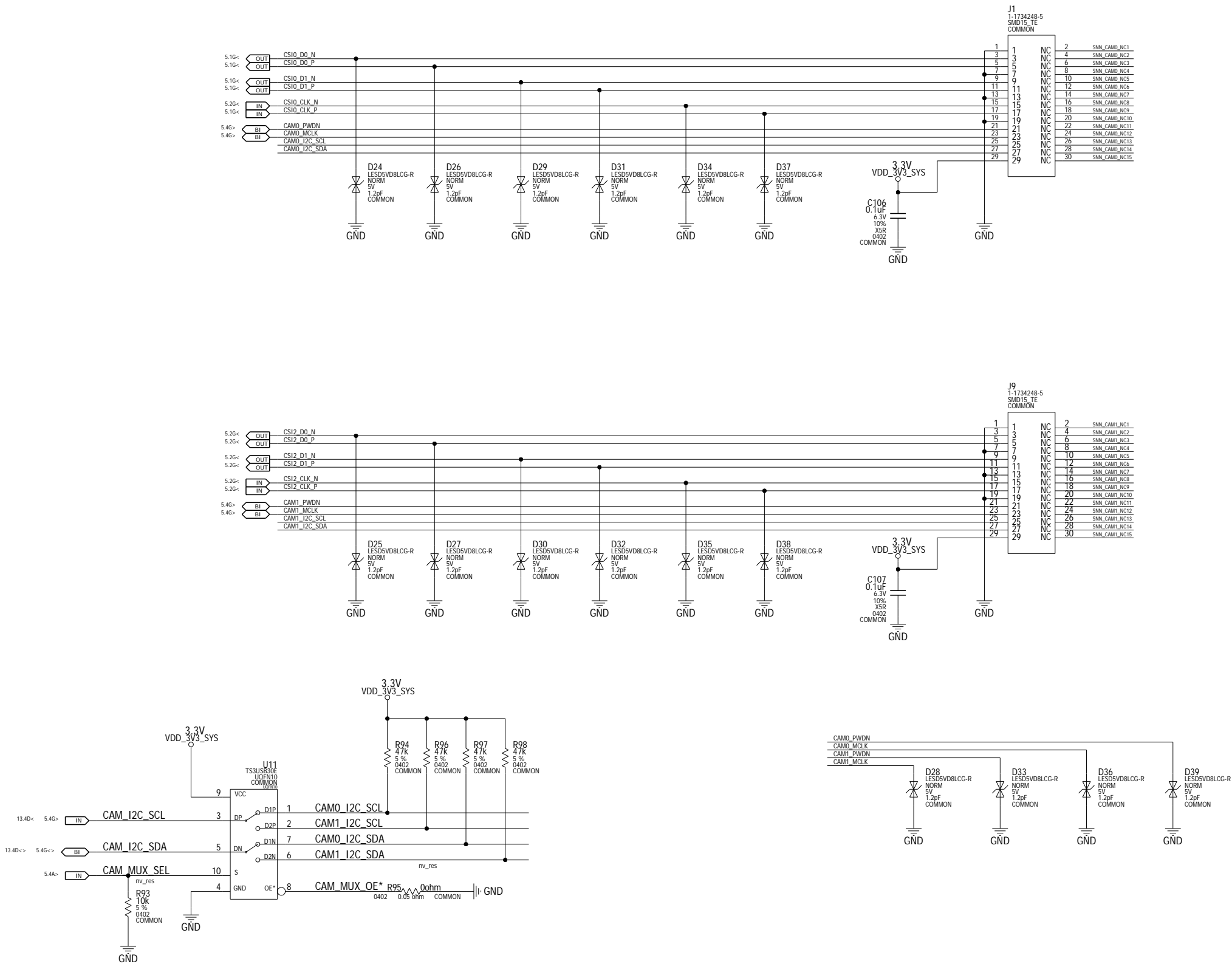
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ASSEMBLY	Jetson Xavier NX Carrier Board
PAGE DETAIL	HDMI

1



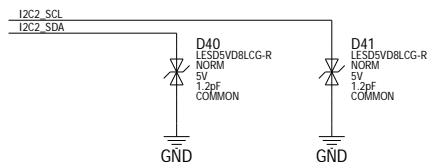
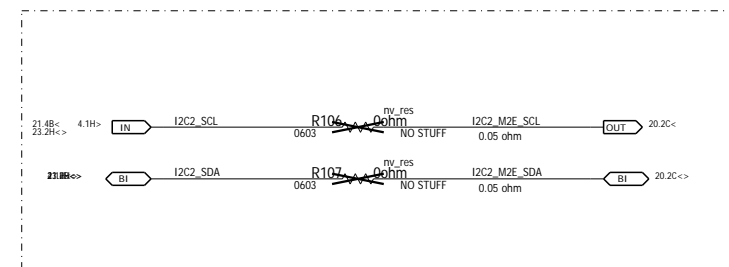
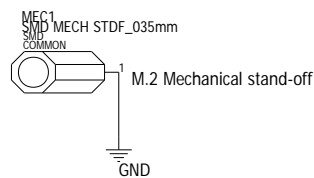
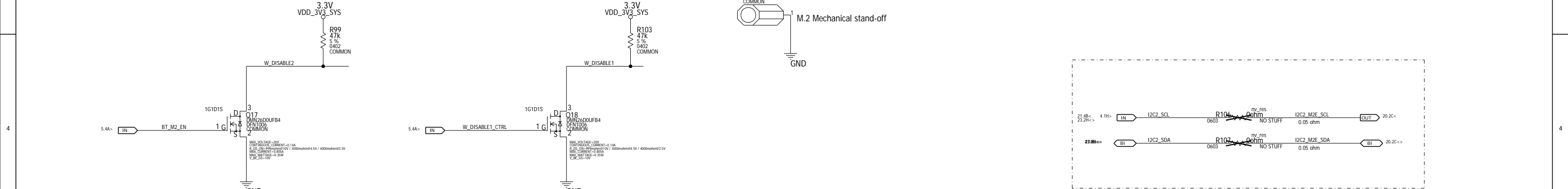
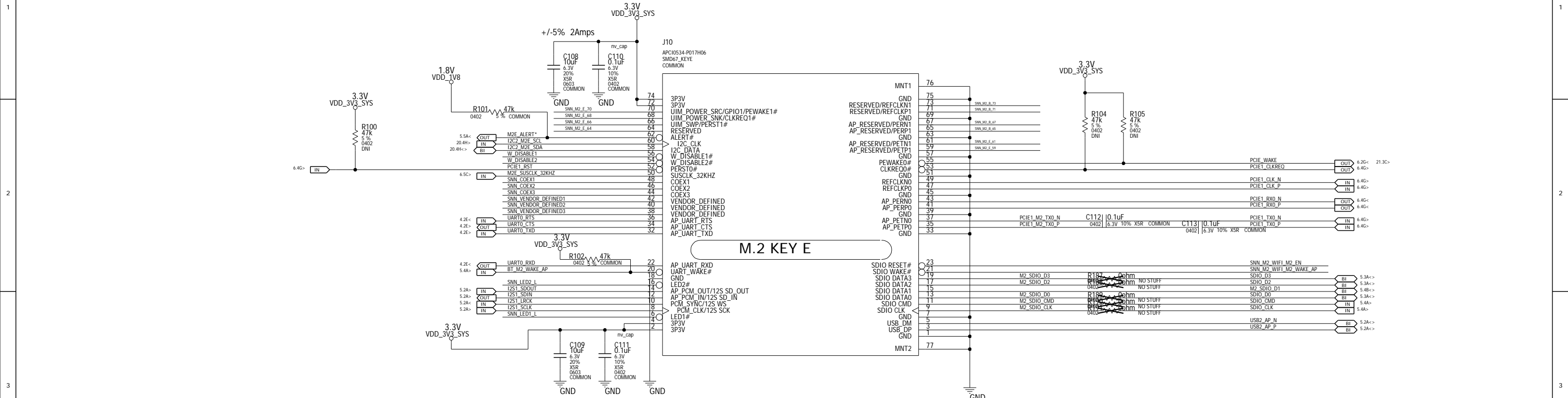
CSI CAM CONNECTOR



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ASSEMBLY	Jetson Xavier NX Carrier Board
PAGE DETAIL	M.2 KEY-E (WIFI/BT)

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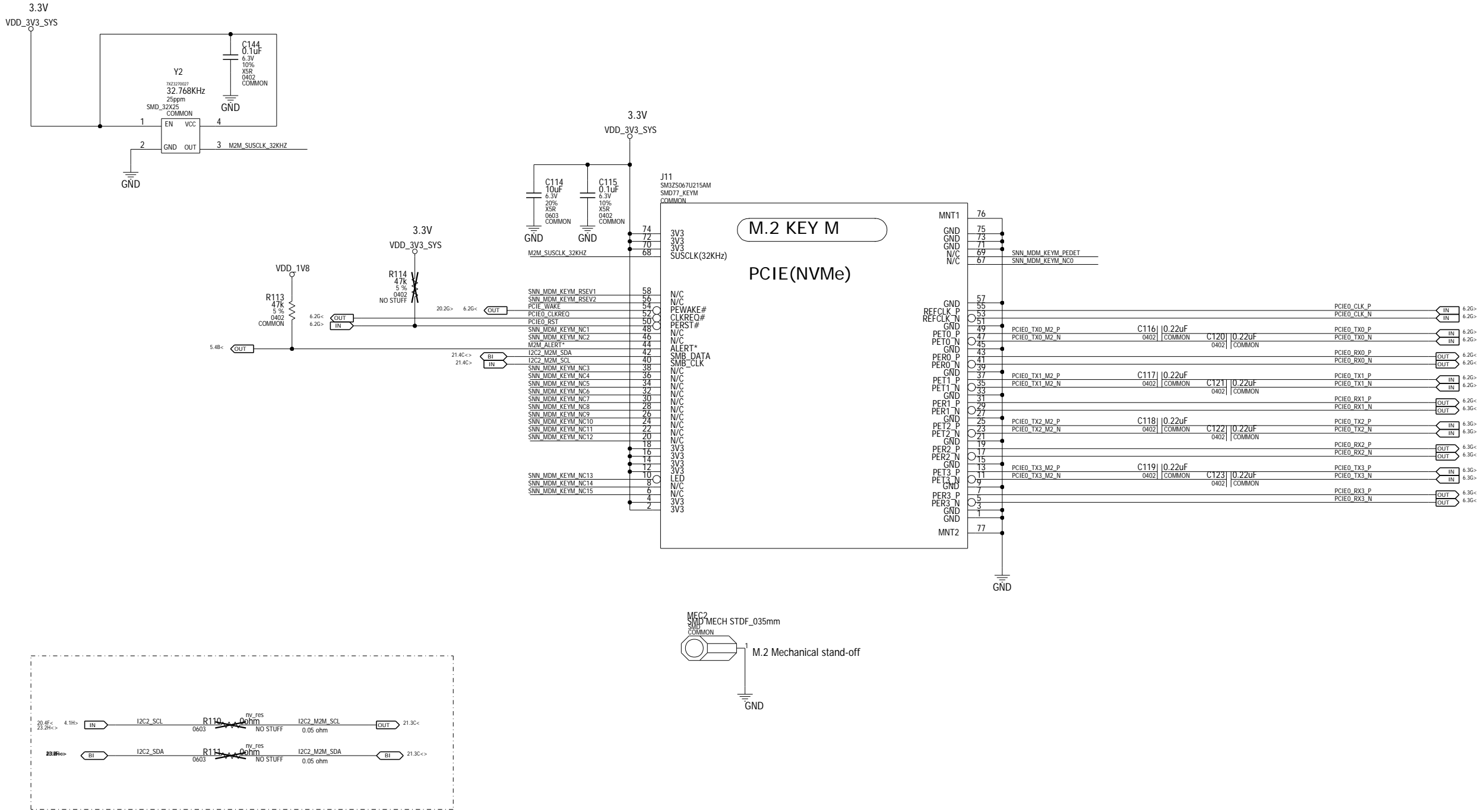
SANTA CLARA, CA 95050, USA

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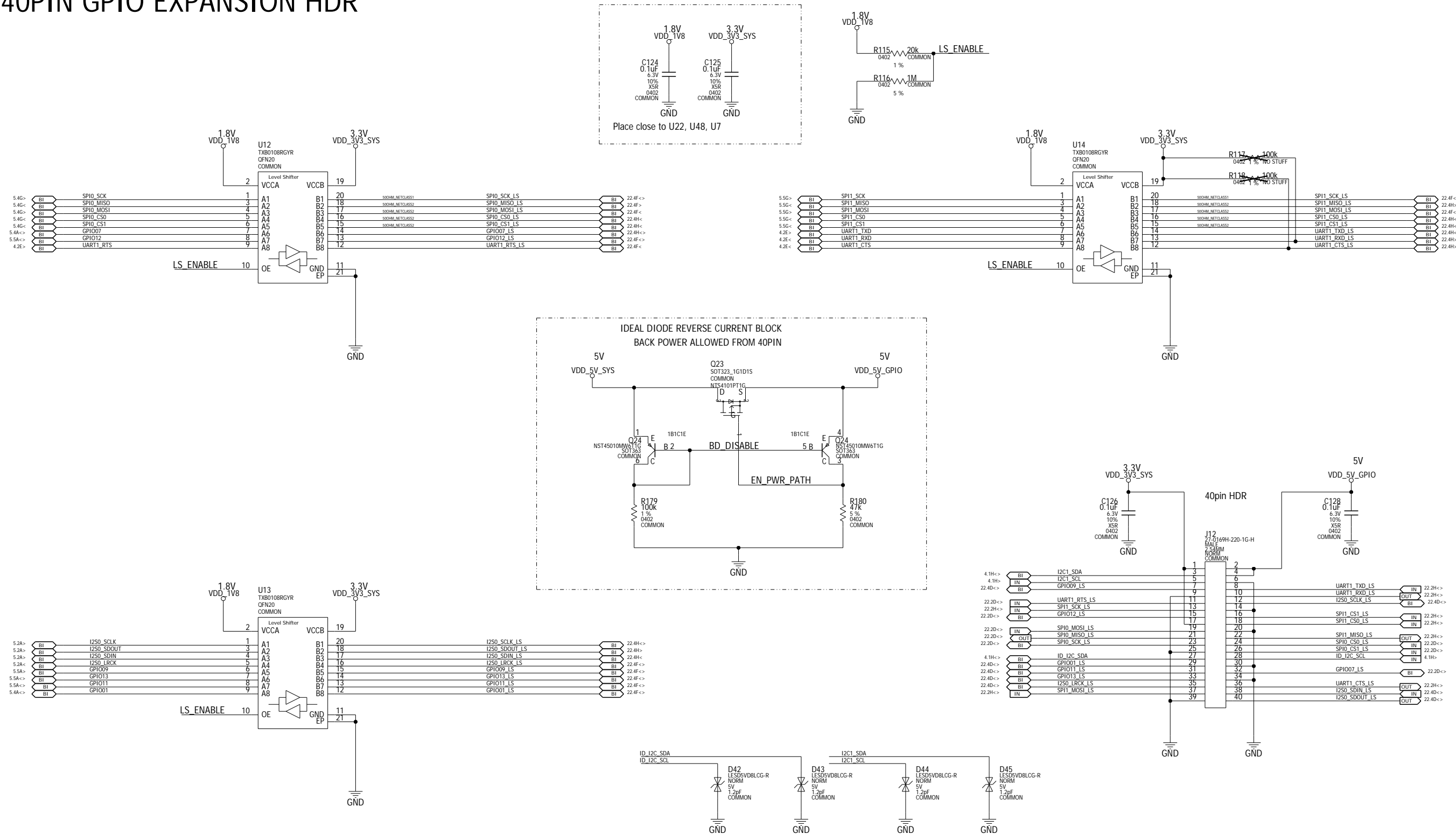
PCB REV	P3509-A01	PAGE	20 OF 25
BOM REV	C	DATE	27-NOV-2019



M.2 KEY-M (NVME)



40PIN GPIO EXPANSION HDR

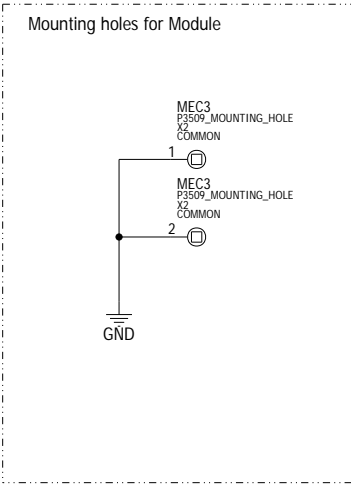


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ASSEMBLY	Jetson Xavier NX Carrier Board
PAGE DETAIL	40PIN GPIO Expansion HDR

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NV_PN	600-13509-0000-100		
PCB REV	P3509-A01	PAGE	22 OF 25
BOM REV	C	DATE	27-NOV-2019

MECHANICAL



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1	<div>REVISION HISTORY</div>								1
2									2
3									3
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				<div>ASSEMBLYJetson Xavier NX Carrier Board</div> <div>PAGE DETAILREVISION HISTORY</div>					
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				PCB REV		P3509-A01		PAGE25 OF 25	
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	A	B	C	D	E	F	G	H	