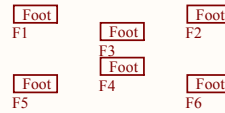
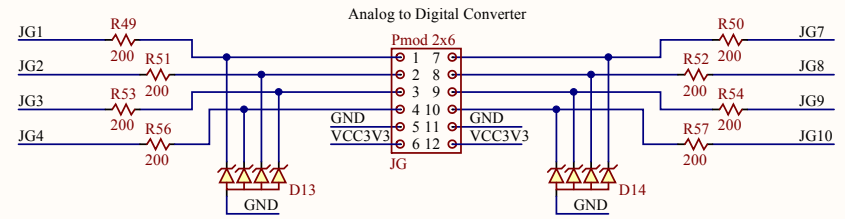
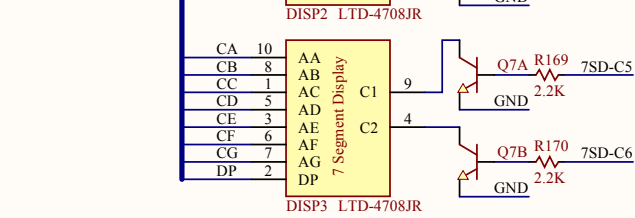
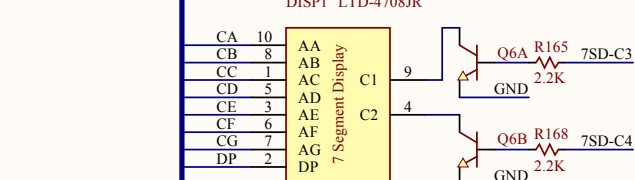
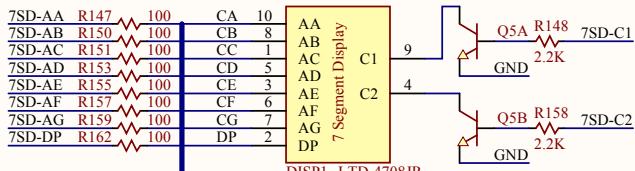
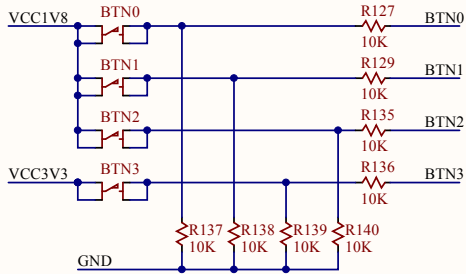
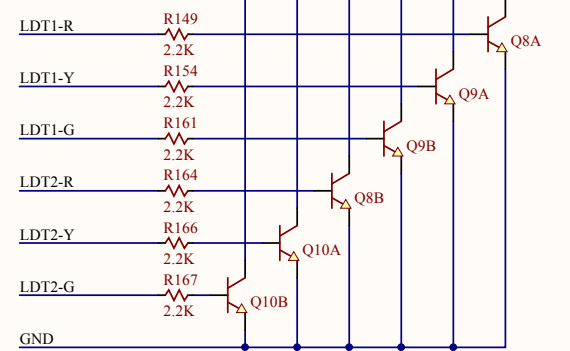
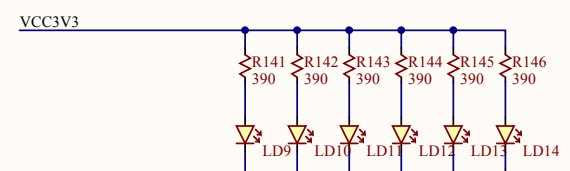
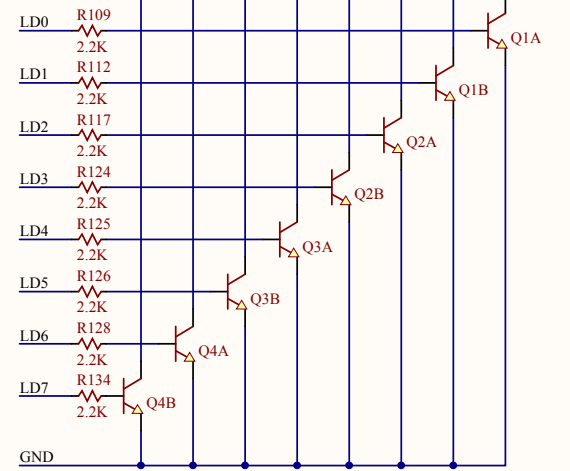
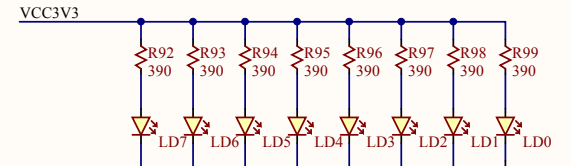
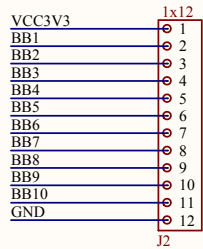
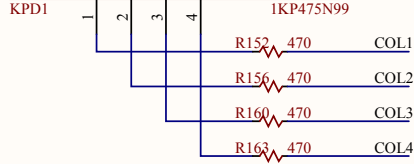
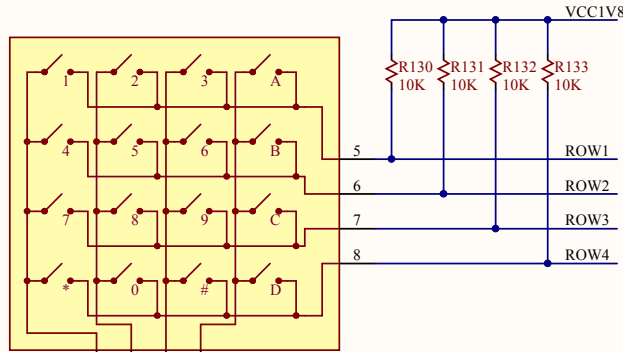
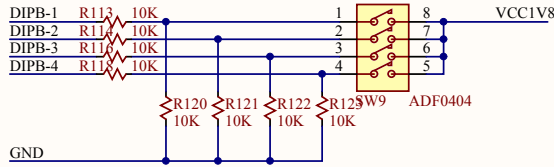
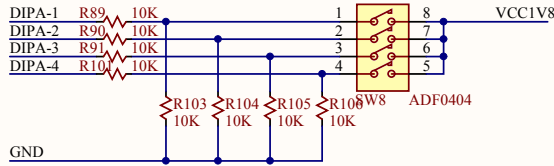
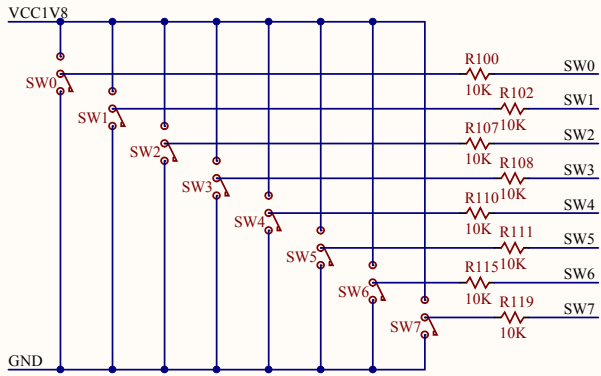


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VCC3V3		1	2	200	R55
JD2	200	3	4	200	R59
JD4	200	5	6	200	R61
JD8	200	7	8	200	R63
JD10	200	9	10	200	R65
JE2	200	11	12	200	R67
JE4	200	13	14	200	R69
JE8	200	15	16	200	R71
JE10	200	17	18	200	R73
JF2	200	19	20	200	R75
JF4	200	21	22	200	R77
JF8	200	23	24	200	R79
JF10	200	25	26	200	R81
JG2	200	27	28	200	R83
JG4	200	29	30	200	R85
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JG10	200	33	34		
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		39	40		

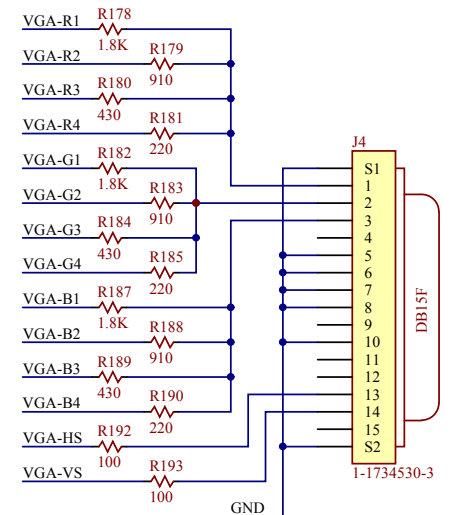
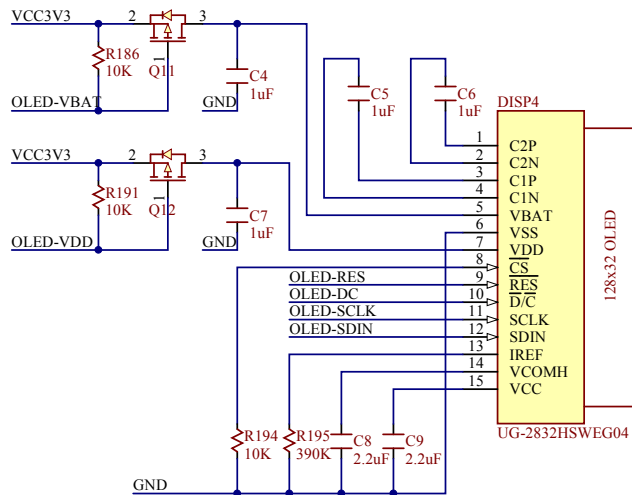
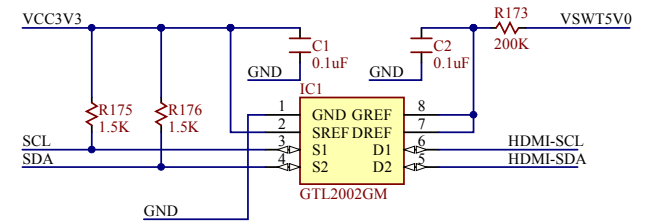
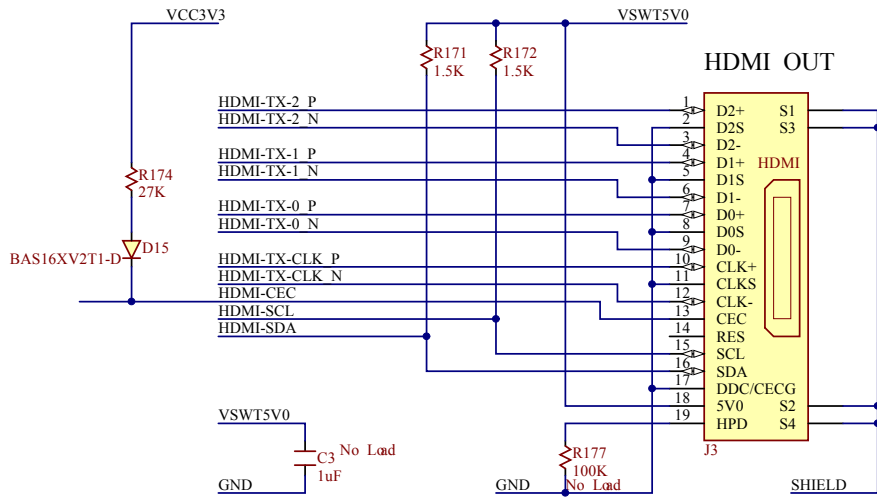


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<h1>Anvyl</h1>		B.0	
		Copyright 2012	
Circuit	IO Connectors	Engineer	EG
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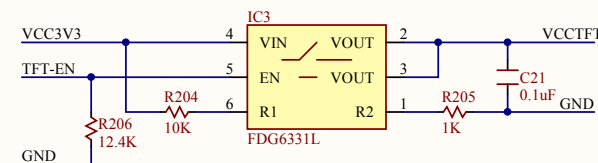
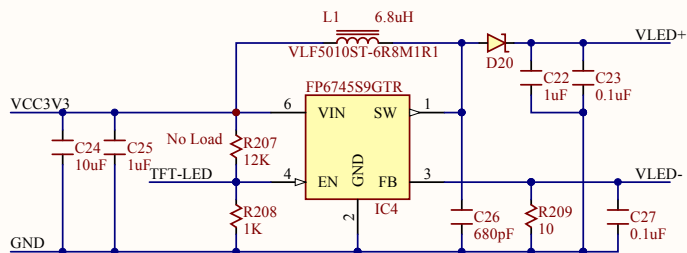
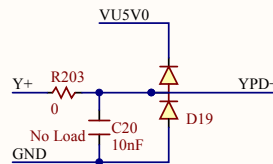
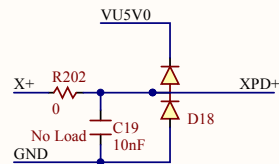
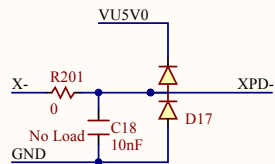
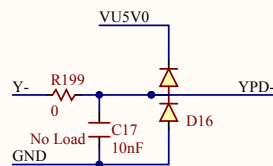
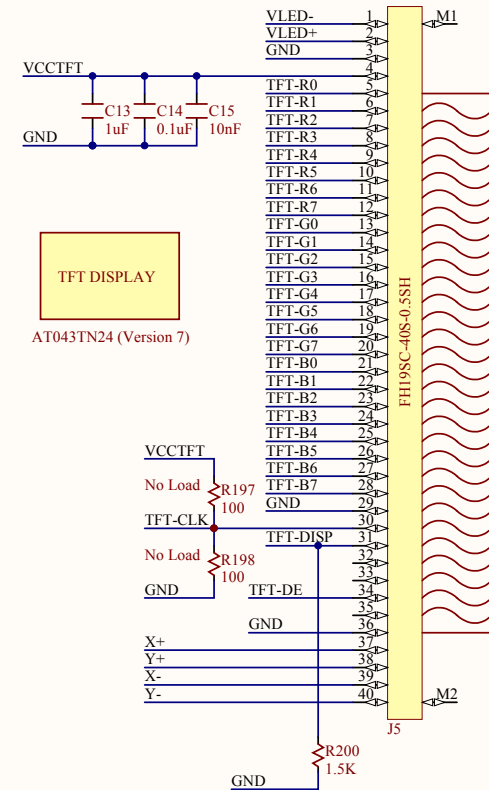
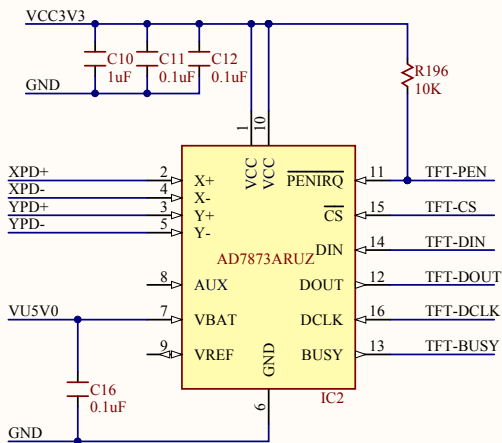
Title		Rev	
<b>Anvyl</b>		<b>B.0</b>	
Circuit		Copyright 2012	
General IO and LEDs			
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Author	GMA		
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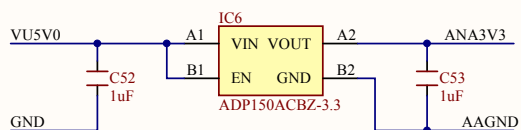
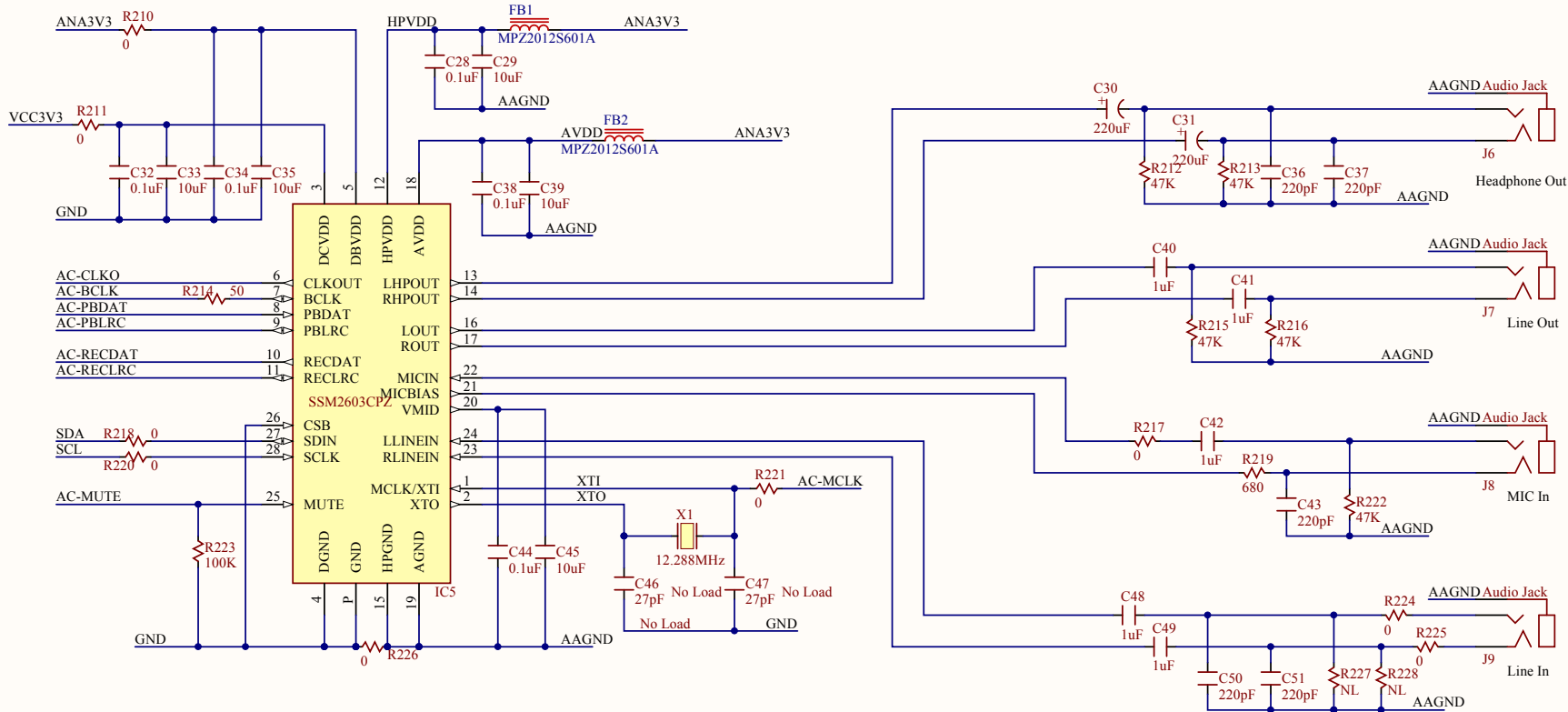
Title	Anvyl	Rev	B.0
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Circuit	Video and OLED		
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Engineer	EG		
Author	GMA		
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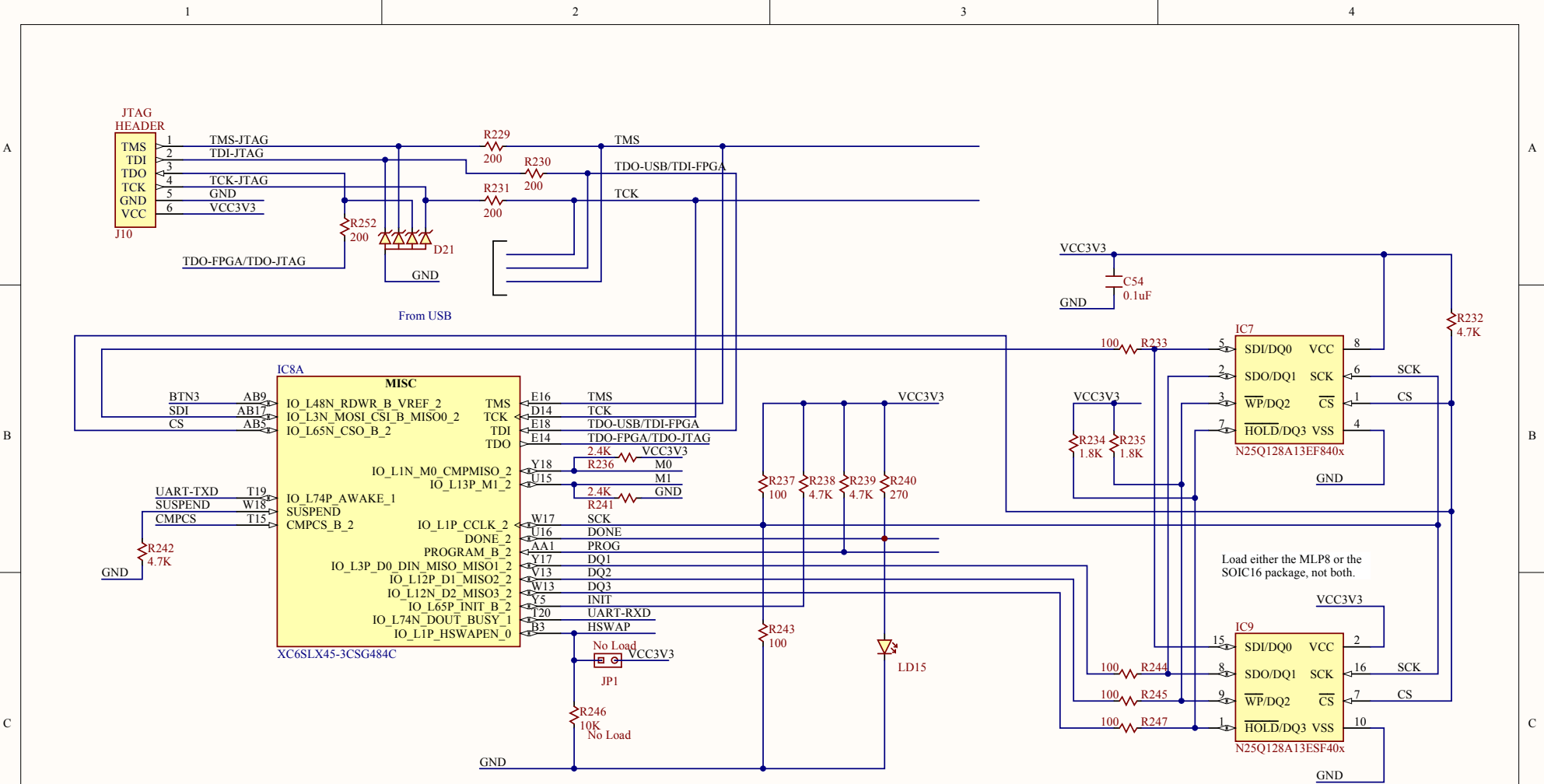
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Circuit		TFT Display		Copyright		2012	
Doc#		500-258					
Engineer		EG					
Author		GMA					
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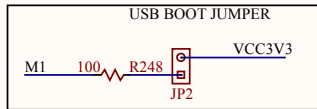


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Load either the MLP8 or the SOIC16 package, not both.



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Circuit Configuration		500-258					
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Author		GMA					
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**IC8B**

IO_L1N_VREF_0	A4	SCL
IO_L2P_0	C5	SDA
IO_L2N_0	A5	AC-PBDAT
IO_L3P_0	D6	AC-PBLRC
IO_L3N_0	C6	AC-RECDAT
IO_L4P_0	B6	AC-RELCRC
IO_L4N_0	A6	AC-MCLK
IO_L5P_0	C7	OLED-VBAT
IO_L5N_0	A7	OLED-VDD
IO_L6P_0	B8	OLED-RES
IO_L6N_0	A8	OLED-DC
IO_L7P_0	C7	OLED-SCLK
IO_L7N_0	C8	OLED-SDIN
IO_L8P_0	C9	HDMI-TX-1 P
IO_L8N_VREF_0	A9	HDMI-TX-1 N
IO_L32P_0	D9	HDMI-TX-2 P
IO_L32N_0	D8	HDMI-TX-2 N
IO_L33P_0	D10	HDMI-TX-0 P
IO_L33N_0	C10	HDMI-TX-0 N
IO_L33N_0	B10	HDMI-TX-CLK P
IO_L34P_GCLK19_0	A10	HDMI-TX-CLK N
IO_L34N_GCLK18_0	C11	AC-CLKO
IO_L35P_GCLK17_0	A11	HDMI-CEC
IO_L35N_GCLK16_0	B12	AC-BCLK
IO_L36P_GCLK15_0	A12	USBH1-SCK1
IO_L36N_GCLK14_0	D11	GCLK
IO_L37P_GCLK13_0	C12	ETH-REFCLK
IO_L37N_GCLK12_0	F10	ETH-TXD1
IO_L38P_0	F10	ETH-TXD0
IO_L38N_VREF_0	D15	ETH-TXEN
IO_L46P_0	C14	ETH-RXD1
IO_L46N_0	C13	ETH-RXD0
IO_L48P_0	A13	ETH-RXERR
IO_L48N_0	B14	ETH-CRSDV
IO_L50P_0	A14	ETH-MDIO
IO_L50N_0	C15	ETH-MDC
IO_L62P_0	A15	AC-MUTE
IO_L62N_VREF_0	A15	AC-MUTE
IO_L63P_SCP7_0	B16	USBH1-SDH1
IO_L63N_SCP6_0	A16	USBH1-SDO1
IO_L64P_SCP5_0	C17	USBH1-SS1
IO_L64N_SCP4_0	A17	JG8
IO_L65P_SCP3_0	D17	JG3
IO_L65N_SCP2_0	C16	JG9
IO_L66P_SCP1_0	B18	JG4
IO_L66N_SCP0_0	A18	JG10

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**IC8C**

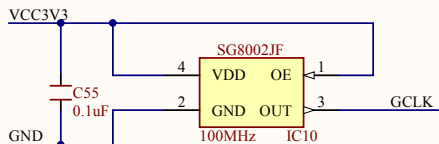
IO_L1P_A25_1	F15	SRAM-DQ7
IO_L1N_A24_VREF_1	F16	SRAM-WE
IO_L9P_1	F13	SRAM-DQ11
IO_L9N_1	F14	SRAM-DQ10
IO_L10P_1	G15	SRAM-A14
IO_L10N_1	G16	SRAM-A18
IO_L11P_1	D19	SRAM-A5
IO_L11N_1	D20	SRAM-A6
IO_L12P_1	C18	SRAM-DQ5
IO_L12N_1	C19	SRAM-DQ6
IO_L13P_1	G17	SRAM-A8
IO_L13N_1	G19	SRAM-LB
IO_L14P_1	B20	SRAM-DQ4
IO_L14N_1	A21	SRAM-DQ2
IO_L15P_1	F17	SRAM-DQ9
IO_L15N_1	F18	SRAM-DQ8
IO_L16P_1	A19	SRAM-DQ3
IO_L16N_1	A20	SRAM-DQ1
IO_L17P_1	H17	SRAM-A16
IO_L17N_1	H18	SRAM-A9
IO_L18P_1	F19	SRAM-OE
IO_L18N_1	E20	SRAM-UB
IO_L19P_1	H12	SRAM-A11
IO_L19N_1	G13	SRAM-CS2
IO_L20P_1	H16	SRAM-A15
IO_L20N_1	H13	SRAM-A17
IO_L21P_1	H14	SRAM-A10
IO_L21N_1	H14	SRAM-DQ12
IO_L28P_1	K15	SRAM-A13
IO_L28N_VREF_1	K16	SRAM-A12
IO_L29P_A23_M1A13_1	F21	SRAM-A1
IO_L29N_A22_M1A14_1	F22	SRAM-A0
IO_L30P_A21_M1RESET_1	H19	SRAM-DQ13
IO_L30N_A20_M1A11_1	H20	SRAM-DQ14
IO_L31P_A19_M1CKE_1	E20	SRAM-A7
IO_L31N_A18_M1A12_1	E22	SRAM-A2
IO_L32P_A17_M1A8_1	G20	SRAM-DQ15
IO_L32N_A16_M1A9_1	G22	SRAM-CS1
IO_L33P_A15_M1A10_1	D21	SRAM-A4
IO_L33N_A14_M1A4_1	D22	SRAM-A3
IO_L34P_A13_M1WE_1	H21	SRAM-DQ0
IO_L34N_A12_M1BA2_1	H22	TFT-G3
IO_L35P_A11_M1A7_1	C20	TFT-R7
IO_L35N_A10_M1A2_1	C22	TFT-G0
IO_L36P_A9_M1BA0_1	K18	TFT-R4
IO_L36N_A8_M1BA1_1	K19	TFT-R2
IO_L37P_A7_M1A0_1	B21	TFT-G2
IO_L37N_A6_M1A1_1	B22	TFT-G1
IO_L38P_A5_M1CLK_1	L17	TFT-R6
IO_L38N_A4_M1CLKN_1	L19	TFT-R5
IO_L39P_M1A3_1	L21	
IO_L39N_M1ODT_1	L22	
IO_L40P_GCLK11_M1A5_1	K17	USBH2-DATA
IO_L40N_GCLK10_M1A6_1	K17	USBH2-CLK
IO_L41P_GCLK9_IRDY1_MIRASN_1	M18	TFT-DOUT
IO_L41N_GCLK8_M1CASN_1	M19	TFT-BUSY

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**IC8D**

IO_L42P_GCLK7_M1UDM_1	L19	TFT-R3
IO_L42N_GCLK6_TRDY1_M1LDM_1	K20	TFT-CLK
IO_L43P_GCLK5_M1DQ4_1	L22	TFT-G5
IO_L43N_GCLK4_M1DQ5_1	K21	TFT-DCLK
IO_L44P_A3_M1DQ6_1	K22	TFT-G4
IO_L44N_A2_M1DQ7_1	M21	TFT-G7
IO_L45P_A1_M1LDQ8_1	M22	TFT-G6
IO_L45N_A0_M1LDQ8N_1	N19	TFT-R1
IO_L46P_FCS_B_M1DQ2_1	M20	TFT-CS
IO_L46N_FOE_B_M1DQ3_1	N20	TFT-PEN
IO_L47P_FWE_B_M1DQ0_1	N22	TFT-B0
IO_L47N_LDC_M1DQ1_1	P21	TFT-B2
IO_L48P_HDC_M1DQ8_1	P22	TFT-B1
IO_L48N_M1DQ9_1	R20	TFT-R0
IO_L49P_M1DQ10_1	R22	TFT-B3
IO_L49N_M1DQ11_1	L21	TFT-B5
IO_L50P_M1UDQ8_1	L22	TFT-B4
IO_L50N_M1UDQ8N_1	L20	TFT-DIN
IO_L51P_M1DQ12_1	L22	TFT-B6
IO_L51N_M1DQ13_1	V21	TFT-DISP
IO_L52P_M1DQ14_1	V22	TFT-B7
IO_L52N_M1DQ15_1	W20	TFT-EN
IO_L53P_1	W22	TFT-DE
IO_L53N_VREF_1	M16	TFT-LED
IO_L58P_1	M17	7SD-C2
IO_L58N_1	V21	7SD-AG
IO_L59P_1	V22	7SD-AC
IO_L59N_1	N15	7SD-AD
IO_L60P_1	N16	7SD-C3
IO_L60N_1	AA20	7SD-C5
IO_L61P_1	AB21	7SD-C6
IO_L61N_1	P15	7SD-DP
IO_L62P_1	P16	7SD-C1
IO_L62N_1	AA21	7SD-AA
IO_L63P_1	AA22	7SD-AB
IO_L63N_1	P19	7SD-C4
IO_L64P_1	P20	7SD-AF
IO_L64N_1	AB19	7SD-AE
IO_L65P_1	AB20	BB1
IO_L65N_1	P17	BB2
IO_L66P_1	P18	BB3
IO_L66N_1	V19	BB4
IO_L67P_1	V20	BB5
IO_L67N_1	R15	BB6
IO_L68P_1	R16	BB7
IO_L68N_1	R17	BB8
IO_L70P_1	R19	BB9
IO_L70N_1	V19	BB10
IO_L71P_1	V20	JG1
IO_L71N_1	L17	JG7
IO_L72P_1	L18	JG2
IO_L72N_1	V17	VGA-HS
IO_L73P_1	V18	VGA-VS
IO_L73N_1	V18	VGA-VS

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Circuit	Spartan 6		
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Author	GMA		
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**IC8E**

IO_L2P_CMPCLK_2	AA18	JA1
IO_L2N_CMPMOSI_2	AB18	JA7
IO_L4P_2	AA16	JA2
IO_L4N_VREF_2	AB16	JA8
IO_L5P_2	Y15	JA3
IO_L5N_2	AB15	JA9
IO_L13N_D10_2	V15	JA4
IO_L14P_D11_2	W15	JA10
IO_L14N_D12_2	Y16	JB1
IO_L15P_2	AA14	JB7
IO_L15N_2	AB14	JB2
IO_L16P_2	W14	JB8
IO_L16N_2	Y14	JB3
IO_L16N_VREF_2	T14	JB9
IO_L20P_2	U14	JB4
IO_L20N_2	U14	JB4
IO_L29P_GCLK3_2	W11	JB10
IO_L29N_GCLK2_2	Y10	JC1
IO_L30P_GCLK1_D15_2	AA12	JC7
IO_L30N_GCLK0_USERGCLK_2	AB12	JC2
IO_L31P_GCLK31_D14_2	Y11	JC8
IO_L31N_GCLK30_D15_2	AB11	JC3
IO_L32P_GCLK29_2	AA10	JC9
IO_L32N_GCLK28_2	AB10	JC4
IO_L41P_2	Y13	JC10
IO_L41N_VREF_2	AB13	JD1
IO_L42P_2	W12	JD7
IO_L42N_2	Y12	JD2
IO_L43P_2	R11	JD8
IO_L43N_2	T11	JD3
IO_L44P_2	V11	JD9
IO_L44N_2	W10	JD4
IO_L45P_2	T10	JD10
IO_L45N_2	U10	JE1
IO_L46P_2	J9	JE7
IO_L46N_2	V9	JE2
IO_L47P_2	W9	JE8
IO_L47N_2	Y8	JE3
IO_L48P_D7_2	Y9	JE9
IO_L49P_D3_2	AA8	JE4
IO_L49N_D4_2	AB8	JE10
IO_L50P_2	V7	JE1
IO_L50N_2	W8	JE7
IO_L62P_D5_2	W6	JE2
IO_L62N_D6_2	Y6	JE8
IO_L63P_2	V7	JE3
IO_L63N_2	AB7	JE9
IO_L64P_D8_2	AA6	JE4
IO_L64N_D9_2	AB6	JE10

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**IC8F**

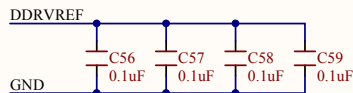
IO_L1P_3	AA2	RZQ
IO_L1N_VREF_3	AB2	DDRVREF
IO_L2P_3	V2	ZIO
IO_L2N_3	Y1	LD2
IO_L7P_3	W4	LDT1-Y
IO_L7N_3	Y4	LD1
IO_L8P_3	V3	LD3
IO_L8N_3	AB3	LD6
IO_L9P_3	W3	LD0
IO_L9N_3	V1	LD5
IO_L10P_3	U8	LDT1-R
IO_L10N_3	T7	LDT1-G
IO_L11P_3	U8	LDT2-R
IO_L11N_3	K7	LDT2-G
IO_L12P_3	AA4	LD7
IO_L12N_3	AB4	LD4
IO_L13P_3	U6	LDT2-Y
IO_L13N_3	V5	SW0
IO_L18P_3	U4	SW1
IO_L18N_3	V3	SW2
IO_L21P_3	U4	SW3
IO_L21N_3	T4	SW4
IO_L22P_3	U6	SW5
IO_L22N_3	V5	SW6
IO_L23P_3	U8	SW7
IO_L23N_3	V7	VGA-B4
IO_L24P_3	V7	VGA-B3
IO_L24N_3	U6	VGA-G4
IO_L25P_3	V8	VGA-B1
IO_L25N_3	V7	VGA-B2
IO_L26P_3	T4	VGA-G1
IO_L26N_3	V3	VGA-R1
IO_L31P_3	U6	VGA-G2
IO_L31N_VREF_3	V6	DDRVREF
IO_L32P_M3DQ14_3	V2	DDR-DQ14
IO_L32N_M3DQ15_3	U3	DDR-DQ15
IO_L33P_M3DQ12_3	U3	DDR-DQ12
IO_L33N_M3DQ13_3	U1	DDR-DQ13
IO_L34P_M3UDQS_3	T2	DDR-UDQS P
IO_L34N_M3UDQSN_3	T1	DDR-UDQS N
IO_L35P_M3DQ10_3	K3	DDR-DQ10
IO_L35N_M3DQ11_3	K1	DDR-DQ11
IO_L36P_M3DQ8_3	P2	DDR-DQ8
IO_L36N_M3DQ9_3	P1	DDR-DQ9
IO_L37P_M3DQ0_3	N3	DDR-DQ0
IO_L37N_M3DQ1_3	N1	DDR-DQ1
IO_L38P_M3DQ2_3	M2	DDR-DQ2
IO_L38N_M3DQ3_3	M1	DDR-DQ3
IO_L39P_M3LDQS_3	L3	DDR-LDQS P
IO_L39N_M3LDQSN_3	L1	DDR-LDQS N
IO_L40P_M3DQ6_3	K2	DDR-DQ6
IO_L40N_M3DQ7_3	K1	DDR-DQ7

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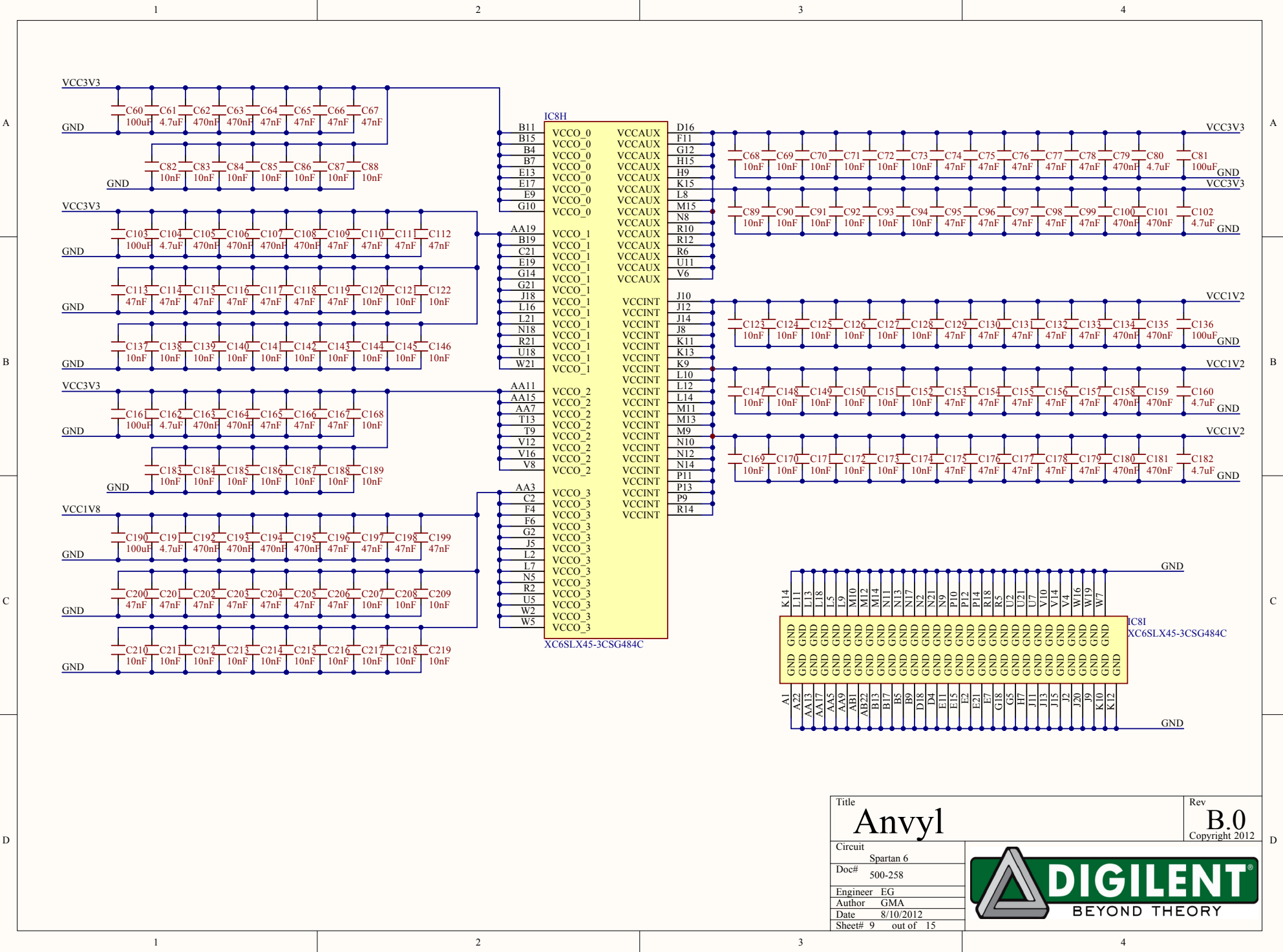
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IO_L42N_GCLK24_M3LDM_3	H1	DDR-LDM
IO_L43P_GCLK23_M3RASN_3	N4	DDR-RAS
IO_L43N_GCLK22_IRDY2_M3CASN_3	P3	DDR-CAS
IO_L44P_GCLK21_M3A5_3	G3	DDR-A5
IO_L44N_GCLK20_M3A6_3	G1	DDR-A6
IO_L45P_M3A3_3	M4	DDR-A3
IO_L45N_M3ODT_3	M3	DDR-ODT
IO_L46P_M3CLK_3	F2	DDR-CK P
IO_L46N_M3CLKN_3	F1	DDR-CK N
IO_L47P_M3A0_3	M5	DDR-A0
IO_L47N_M3A1_3	L4	DDR-A1
IO_L48P_M3BA0_3	F3	DDR-BA0
IO_L48N_M3BA1_3	F1	DDR-BA1
IO_L49P_M3A7_3	K4	DDR-A7
IO_L49N_M3A2_3	K3	DDR-A2
IO_L50P_M3WE_3	D2	DDR-WE
IO_L50N_M3BA2_3	D1	DDR-BA2
IO_L51P_M3A10_3	K6	DDR-A10
IO_L51N_M3A4_3	K5	DDR-A4
IO_L52P_M3A8_3	C3	DDR-A8
IO_L52N_M3A9_3	C1	DDR-A9
IO_L53P_M3CKE_3	H6	DDR-CKE
IO_L53N_M3A12_3	H4	DDR-A12
IO_L54P_M3RESET_3	B2	VGA-R2
IO_L54N_M3A11_3	B1	DDR-A11
IO_L55P_M3A13_3	H4	VGA-R4
IO_L55N_M3A14_3	H3	VGA-R3
IO_L57P_3	H6	VGA-G3
IO_L57N_VREF_3	H5	DDRVREF
IO_L58P_3	H8	COL1
IO_L58N_3	H7	COL2
IO_L59P_3	K8	COL3
IO_L59N_3	K7	COL4
IO_L60P_3	H4	ROW1
IO_L60N_3	H3	ROW2
IO_L73P_3	G8	ROW3
IO_L73N_3	G7	ROW4
IO_L74P_3	G6	DIPA-1
IO_L74N_3	G4	DIPA-2
IO_L75P_3	F5	DIPA-3
IO_L75N_3	F8	DIPA-4
IO_L80P_3	F7	DIPB-1
IO_L80N_3	F4	DIPB-2
IO_L81P_3	D3	DIPB-3
IO_L81N_3	D6	DIPB-4
IO_L82P_3	E3	BTN0
IO_L82N_3	D5	BTN1
IO_L83P_3	A3	BTN2
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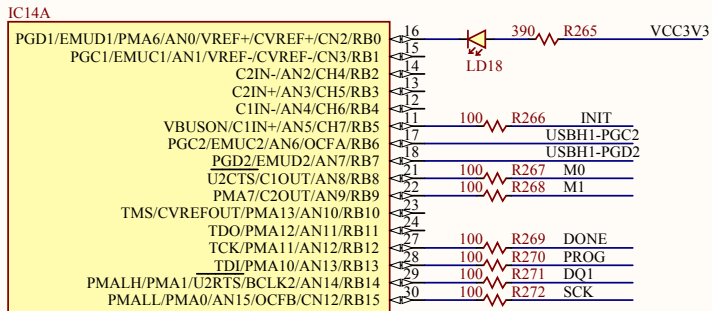
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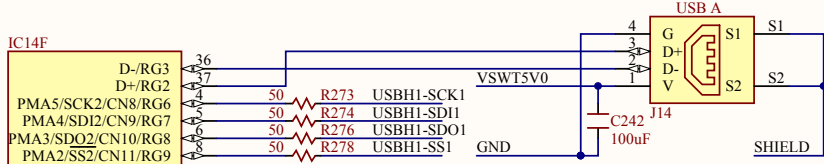
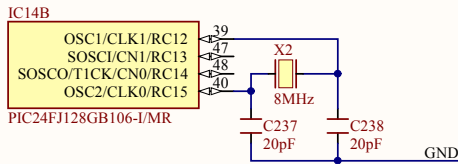


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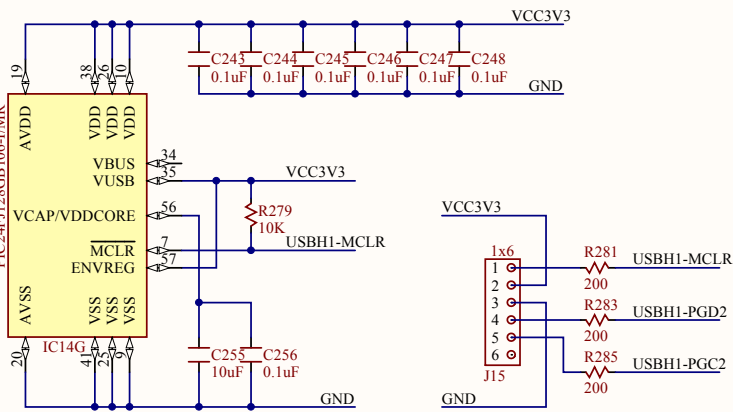
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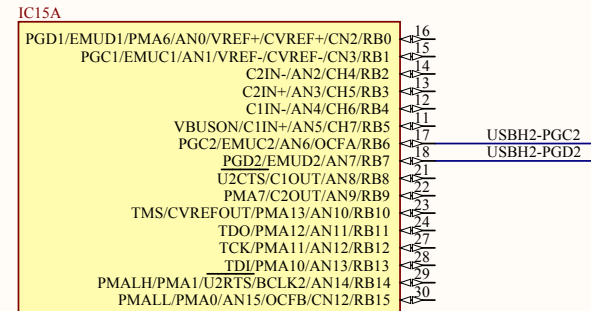
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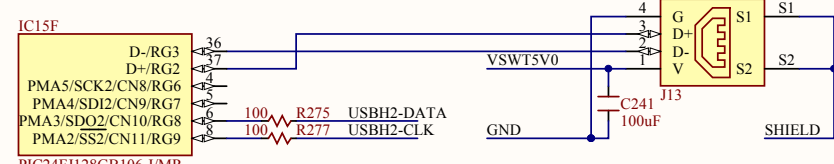
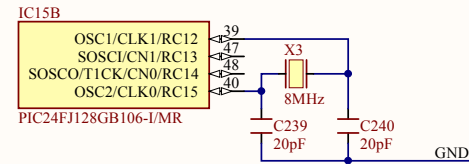
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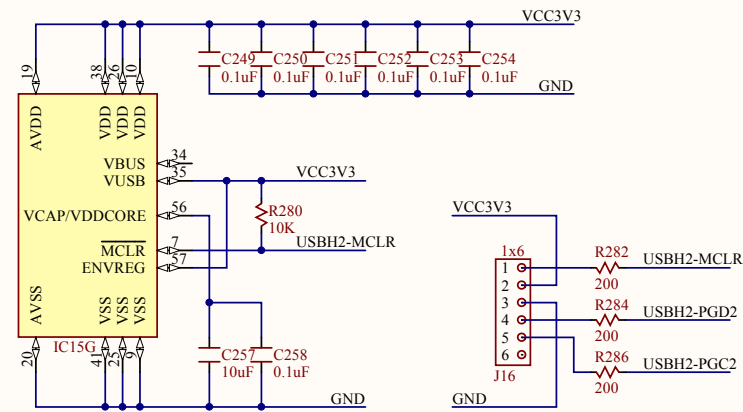
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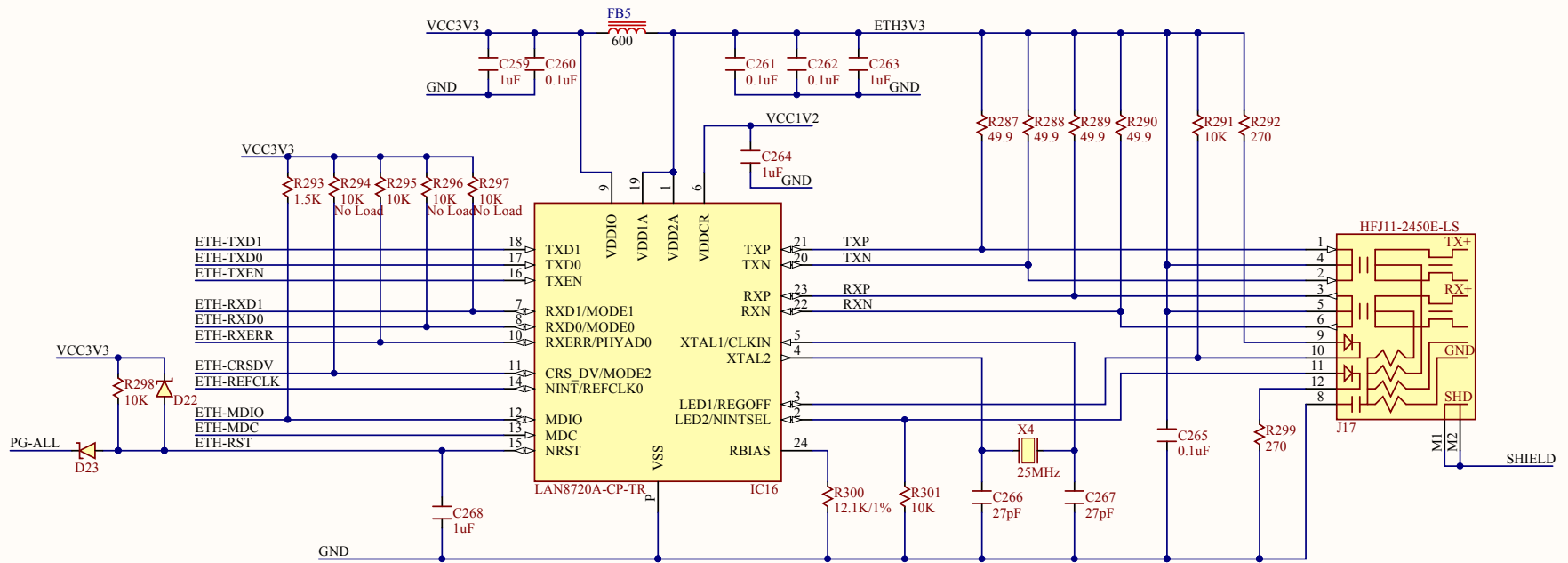


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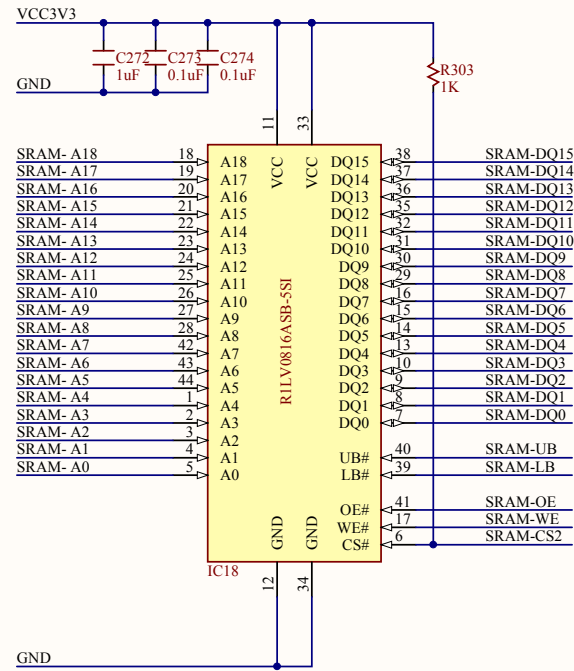
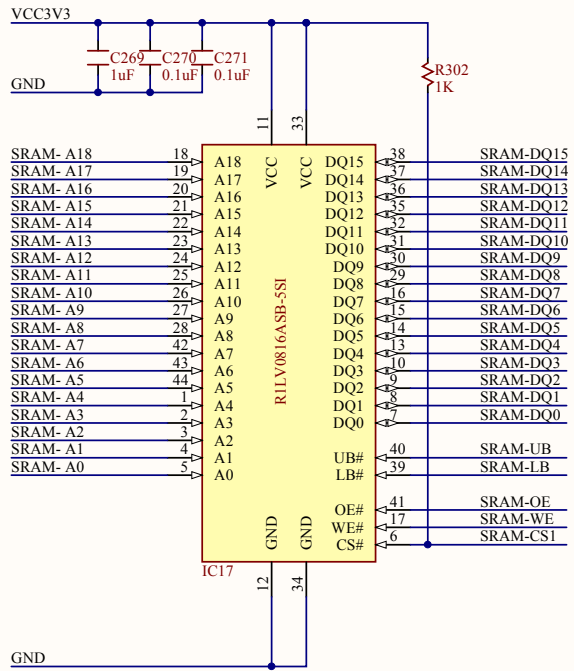
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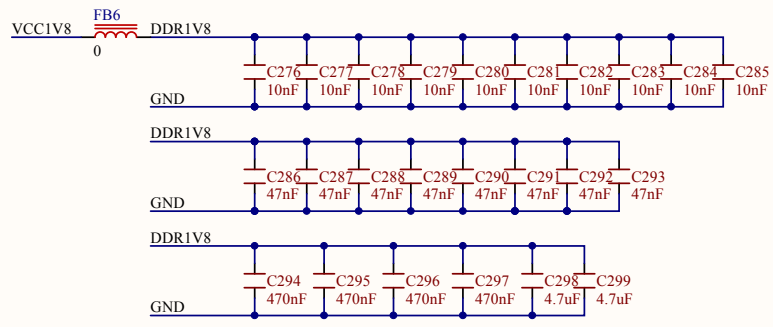
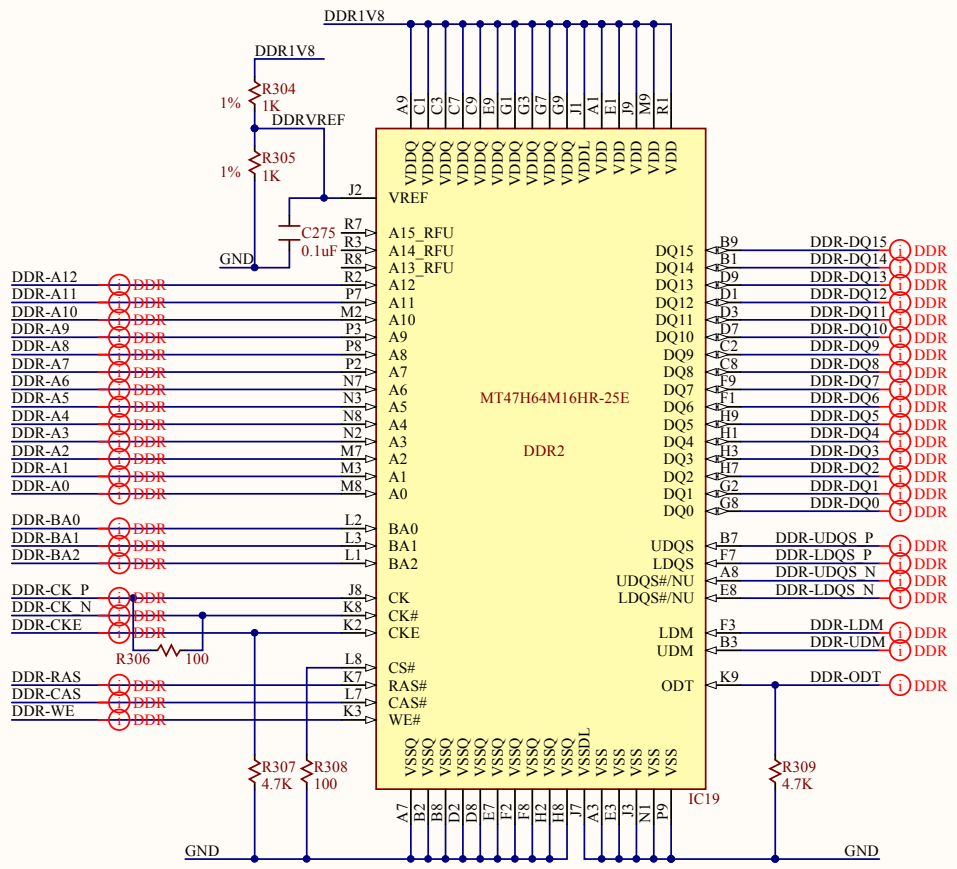


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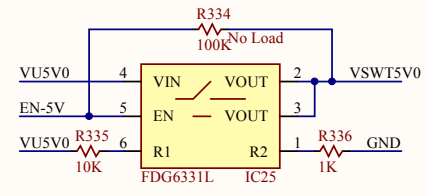
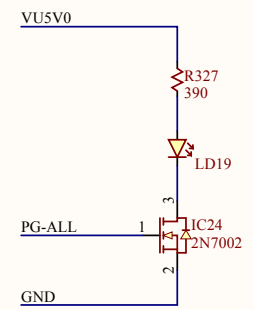
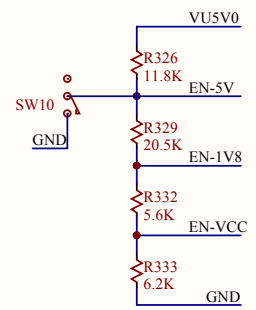
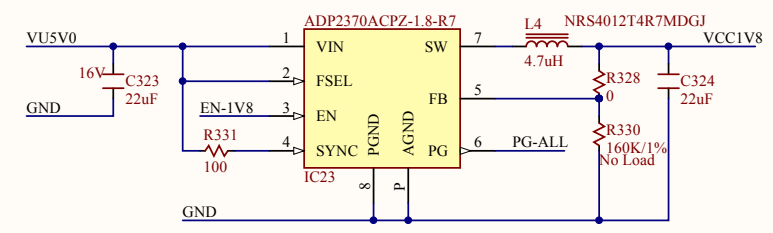
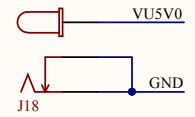
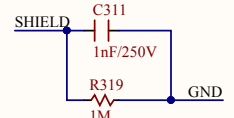
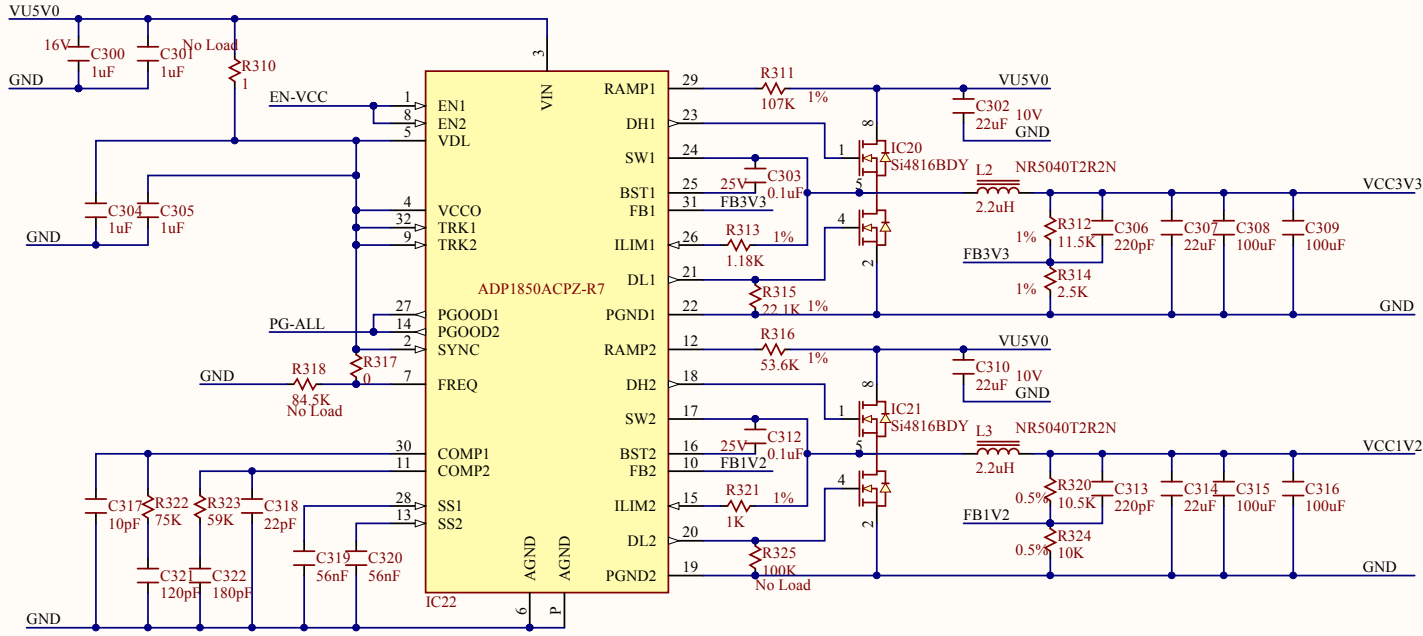




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