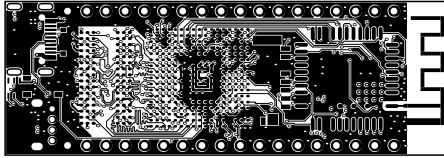


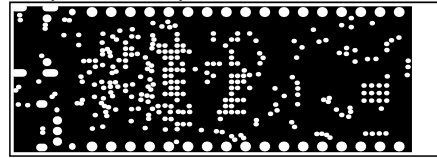
A

B

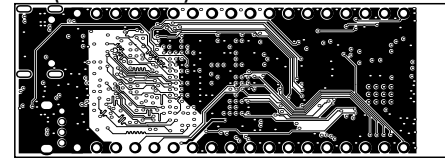
L1 (Scale 1:1)



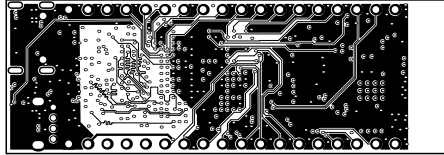
L2 (Scale 1:1)



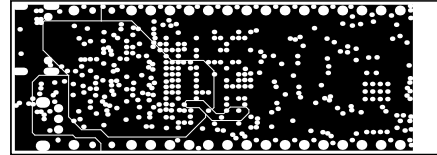
L3 (Scale 1:1)



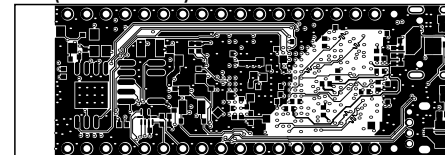
L4 (Scale 1:1)



L5 (Scale 1:1)



L6 (Scale 1:1)



## Layer Stack Legend

		Top Overlay			Legend	GTO
		Surface Material	Top Solder	0.01mm	Solder Resist	GTS
		Copper	L1	0.02mm	Signal	GTL
		Prepreg		0.11mm	FR408HR	Dielectric
		CF-004	L2	0.02mm	Internal Plane	GP1
		Core		0.10mm	FR408HR	Dielectric
		CF-004	L3	0.02mm	Signal	G1
		Core		0.53mm	FR408HR	Dielectric
		CF-004	L4	0.02mm	Signal	G2
		Core		0.10mm	FR408HR	Dielectric
		CF-004	L5	0.02mm	Internal Plane	GP2
		Prepreg		0.11mm	FR408HR	Dielectric
		Copper	L6	0.02mm	Signal	GBL
		Surface Material	Bottom Solder	0.01mm	Solder Resist	GBS
		Bottom Overlay			Legend	GBO

Total thickness: 1.08mm

1

1

2

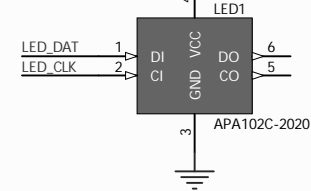
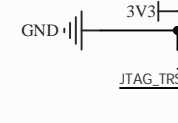
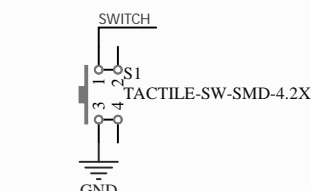
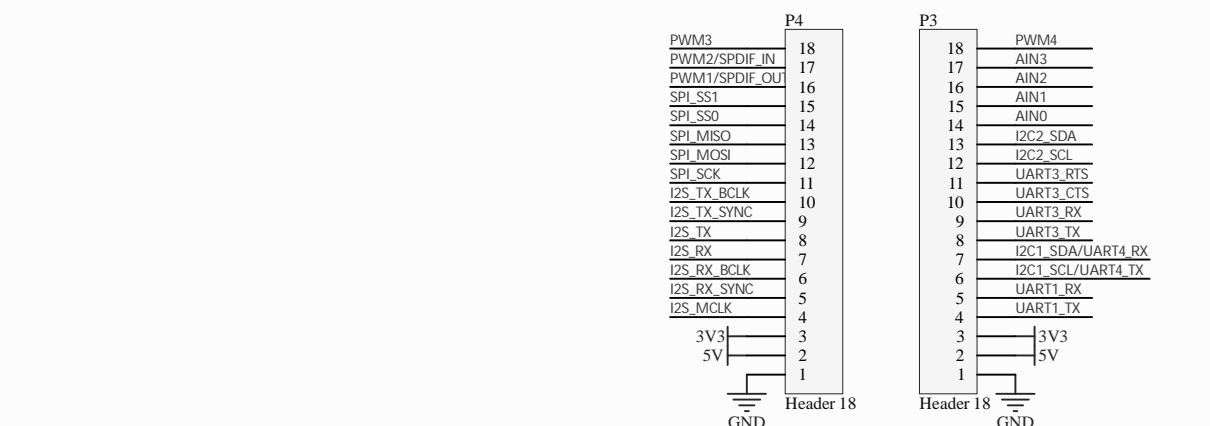
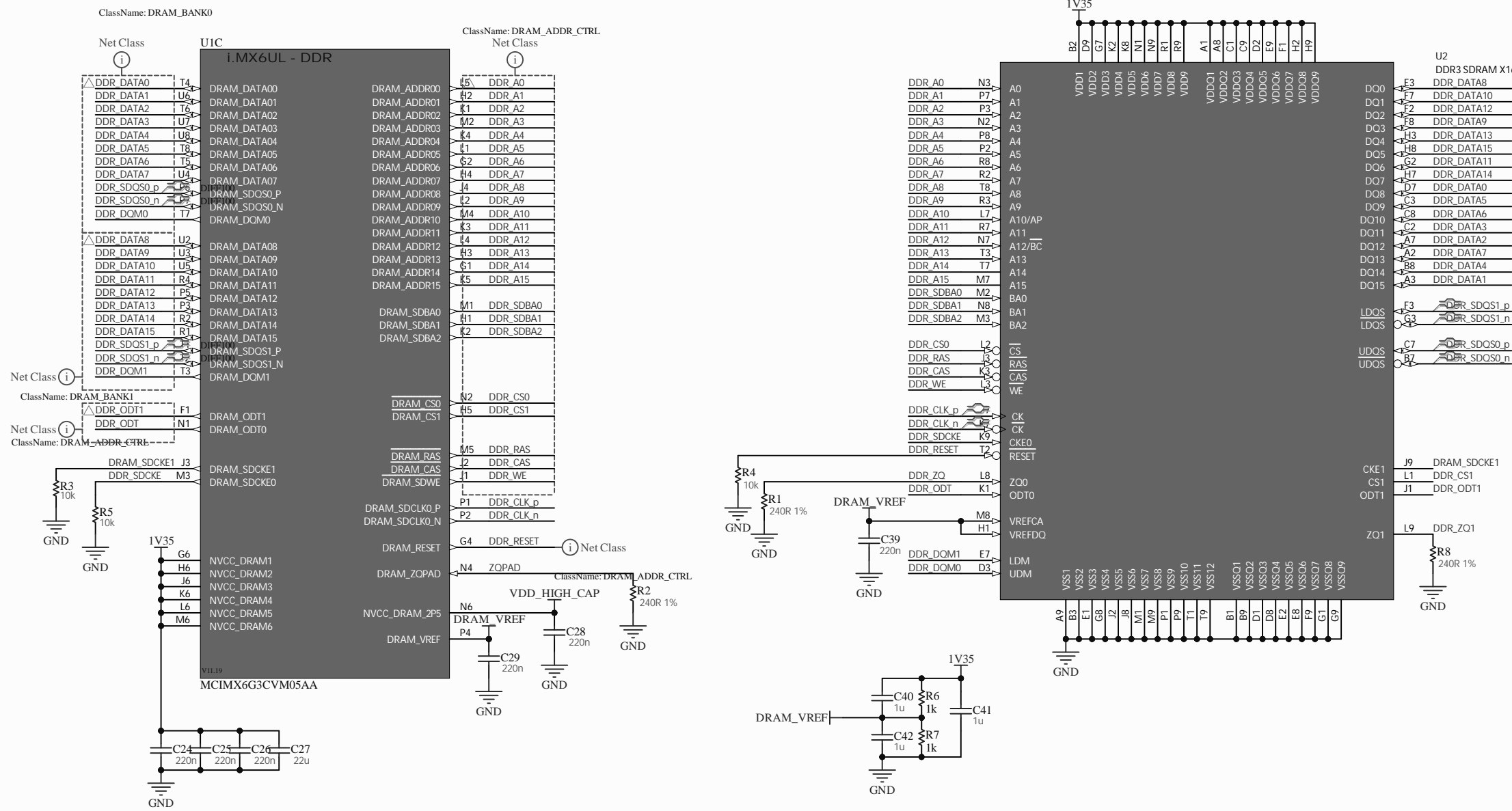
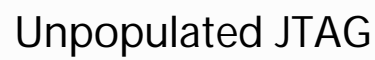
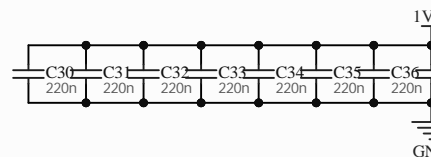
2

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	JAY CARLSON			
		DIMENSIONS ARE IN INCHES	DRAWN		2/15/2021	TITLE  MXIOT REV A			
		TOLERANCES:	CHECKED						
		FRACTIONAL ±	ENG APPR.						
		ANGULAR: MACH ±    BEND ±	MFG APPR.						
		TWO PLACE DECIMAL   ±	Q.A.						
		THREE PLACE DECIMAL   ±	COMMENTS:						
		INTERPRET GEOMETRIC TOLERANCING PER:							
		MATERIAL							
NEXT ASSY	USED ON	FINISH				SIZE	DWG. NO.		
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:1	WEIGHT:	SHEET 1 OF 1	

A

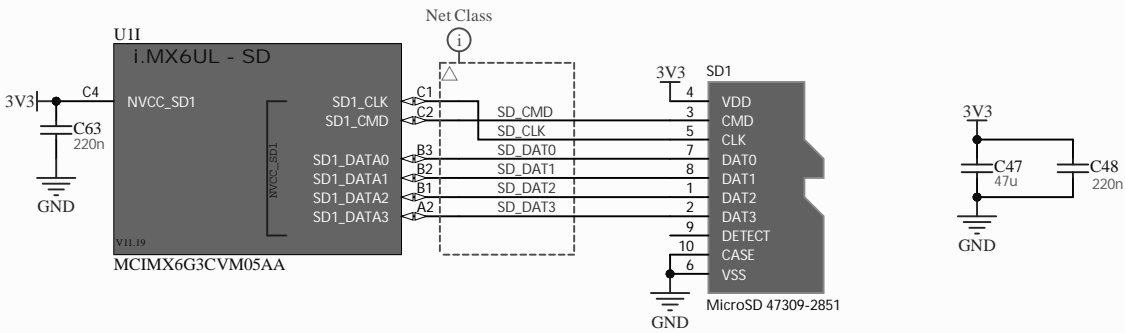
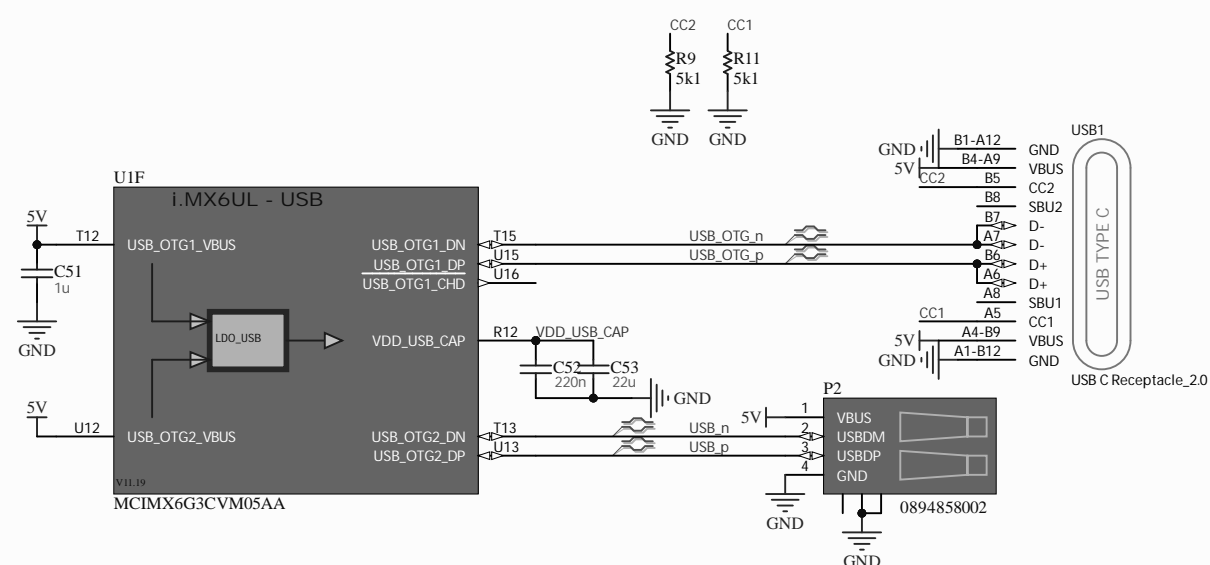
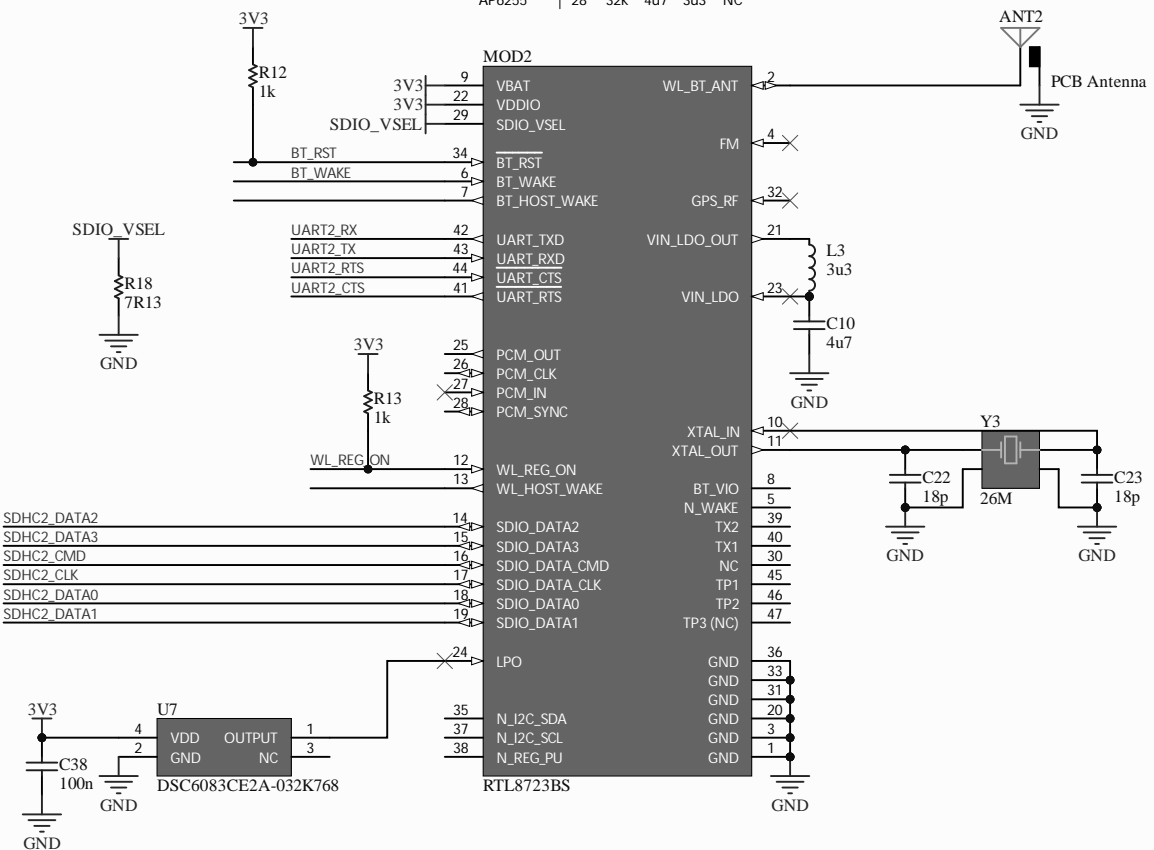
B

DRAM

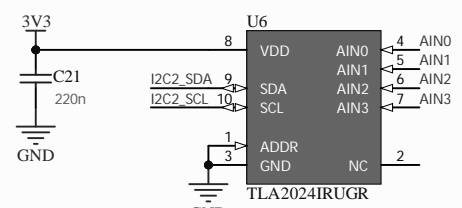
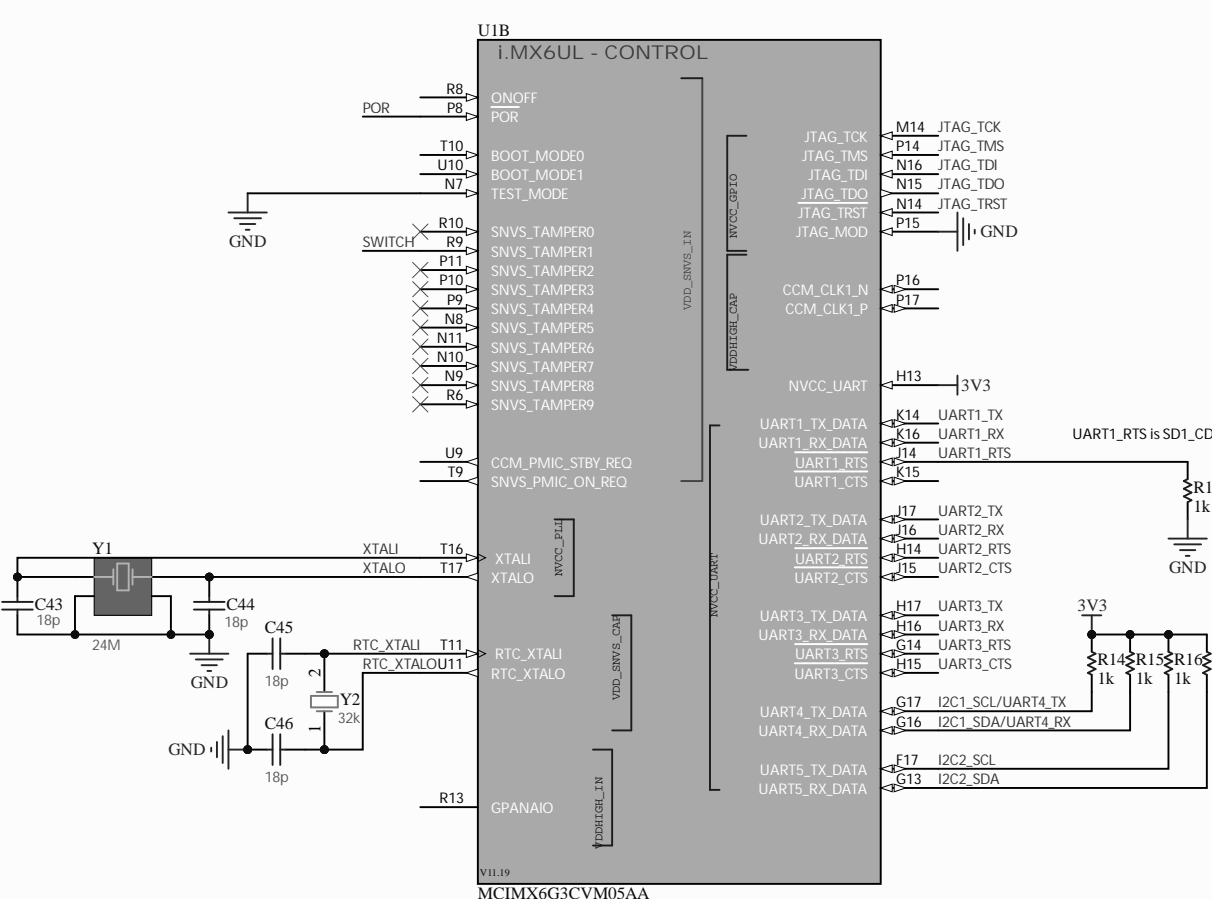
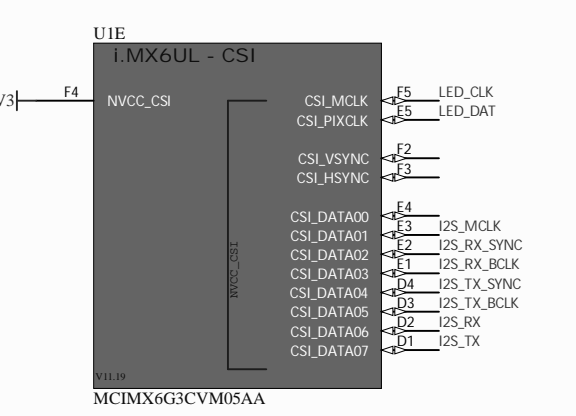
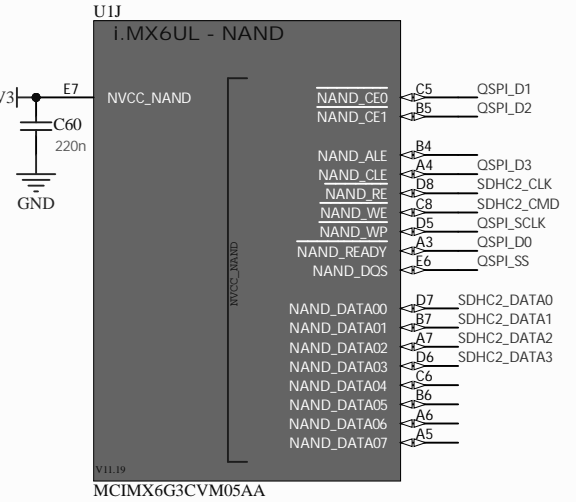
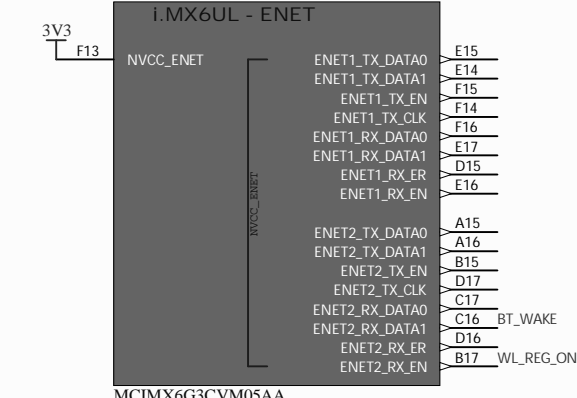
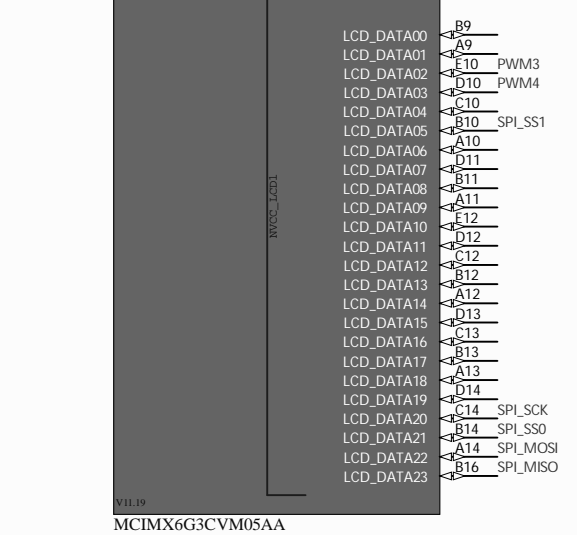
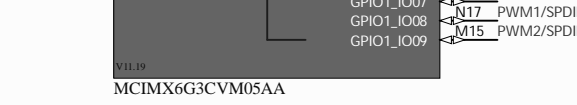
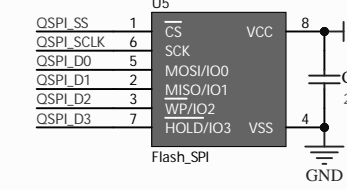
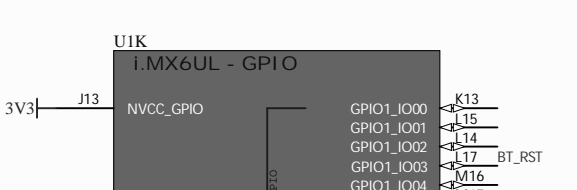
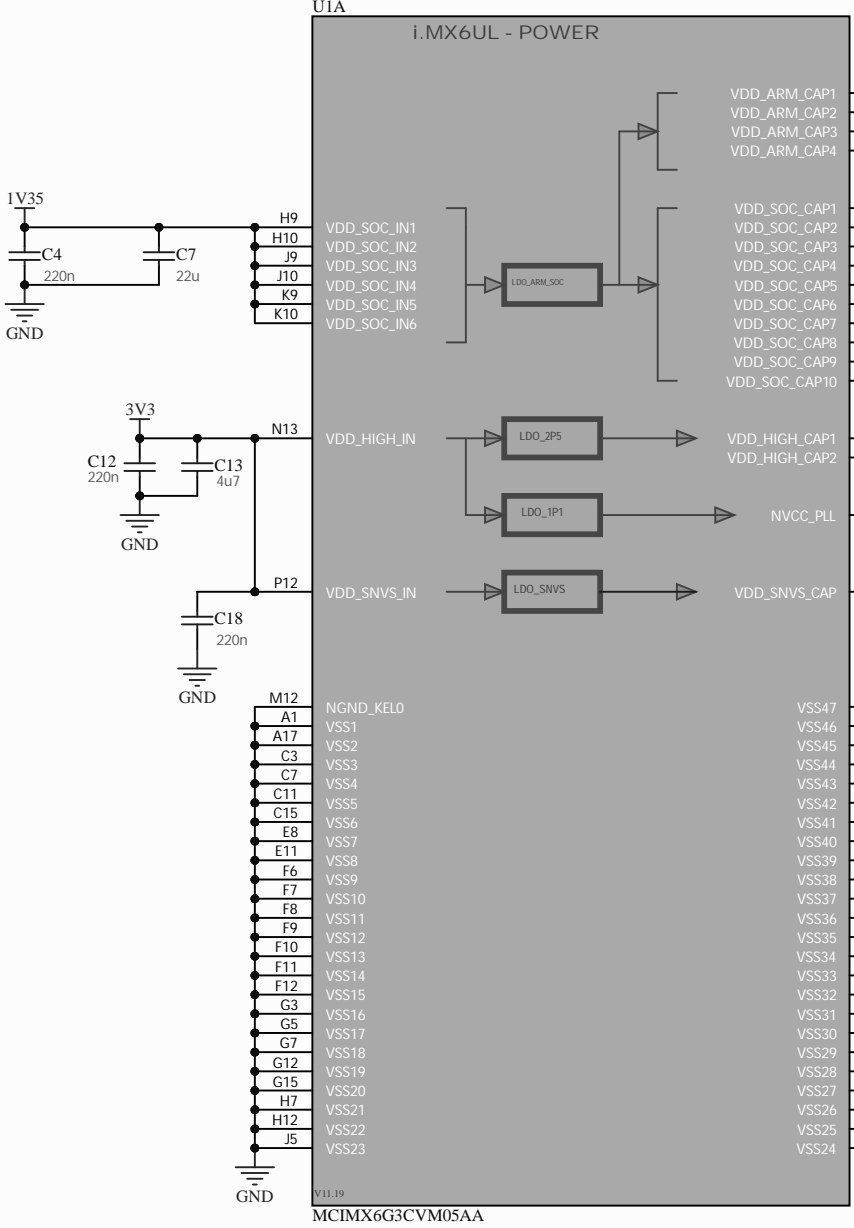
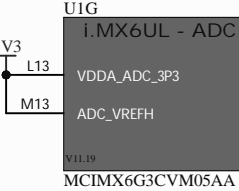
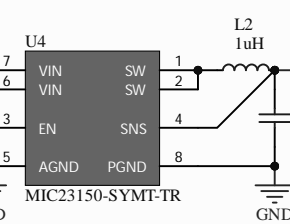
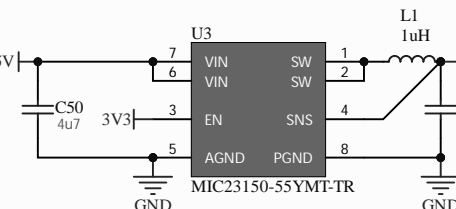


## WiFi/BT

Module	Y3	U7	C10	L3	R18
RTL8723BS	NC	NC	NC	NC	NC
AP6335	37.4	32k	4u7	3u3	7R13
AP6181	26	32k	4u7	3u3	NC
AP6212	27	32k	4u7	3u3	NC
AP6255	28	32k	4u7	3u3	NC



## Power



Line #	Designator	Name	Quantity	Manufacturer 1	Manufacturer Part Number 1	Supplier 1	Supplier Part Number 1
	C1, C2, C4, C8, C9, C12, C14, C16, C18, C19, C20, C21, C24, C25, C26, C28, C29, C30, C31, C32, C33, C34, C35, C36, C39, C48, C52, C60, C62, C63	220n CAPC1005N	30			[NoParam], Digi-Key	[NoParam], 490-5921-1-ND, 490-5418-1-ND
	C3, C7, C11, C27, C37, C53	22u CAPC1608N	6				
	C5, C6, C13, C50, C54	4u7CAPC1608N	5				
	C15, C17	10u CAPC1608N	2				
	C40, C41, C42, C51	1u CAPC1005N	4	Murata	GRM1555C1H100JA01D	Digi-Key	490-5921-1-ND
	C43, C44, C45, C46	18p CAPC1005N	4	Murata	GRM1555C1H100JA01D	Digi-Key	490-5921-1-ND
	C47	47u CAPC2012L	1	Murata	GRM21BR60G476ME15L	Digi-Key	490-6469-1-ND
	L1, L2	1uH INDC2520X12N	2	Samsung	C1GW252010GL1R0MNE	Digi-Key	1276-6932-1-ND
	LED1	APA102C-2020	1				
	MOD2	RTL8723BS	1				
	P2	0894858002	1	Molex	0894858002	Digi-Key	WM8627-ND
	P3, P4	Header 18	2				
	R1, R2, R8	240R 1% RESC1005N	3	Yageo	RC0402FR-07240RL	Digi-Key	311-240LRCT-ND
	R3, R4, R5	10k RESC1005N	3				
	R6, R7, R10, R12, R13, R14, R15, R16, R17	1k RESC1005N	9				
	R9, R11	5k1 RESC1005N	2				
	S1	TACTILE-SW-SMD-4.2X3.2X2.5	1				
	SD1	MicroSD 47309-2851	1	Molex	47309-2851	Digi-Key	WM6701TR-ND
	U1	MCIMX6G3CVM05AA	1	NXP Semiconductors	MCIMX6Z0DVM09AB		
	U2	DDR3 SDRAM X16	1	Micron Technology	MT41K256M16TW-107 IT:P	LCSC	C524869
	U3	MIC23150-55YMT-TR	1	Microchip	MIC23150-55YMT-TR	Digi-Key	576-3651-1-ND
	U4	MIC23150-SYMT-TR	1	Microchip	MIC23150-SYMT-TR	Digi-Key	576-3314-1-ND
	U5	Flash_SPI	1				
	U6	TLA2024IRUGR	1	Texas Instruments	TLA2024IRUGR	Digi-Key	296-51661-1-ND
	USB1	USB C Receptacle_2.0	1				
	Y1	24M XTAL3225-4-N	1	Murata	XRCGB24M000F3M00R0	Digi-Key	490-5576-1-ND
	Y2	32k ABS07	1	Seiko	SC32S-7PF20PPM	Digi-Key	728-1074-1-ND