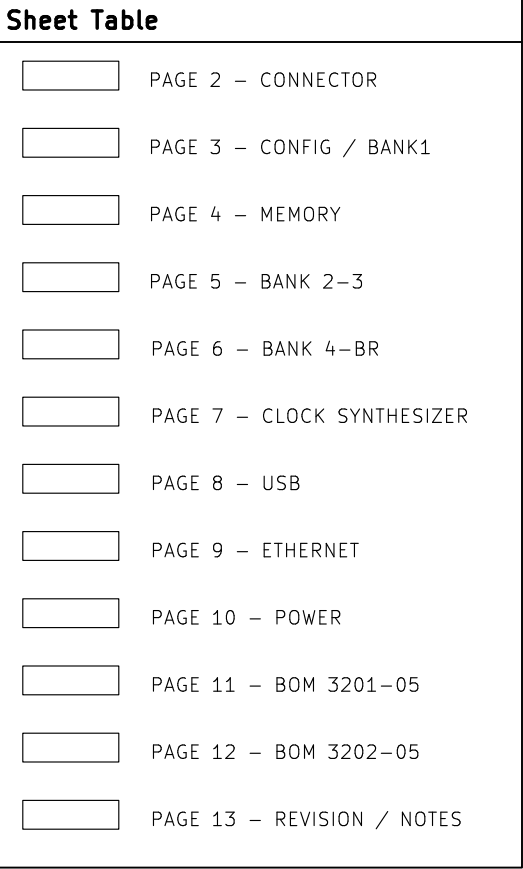
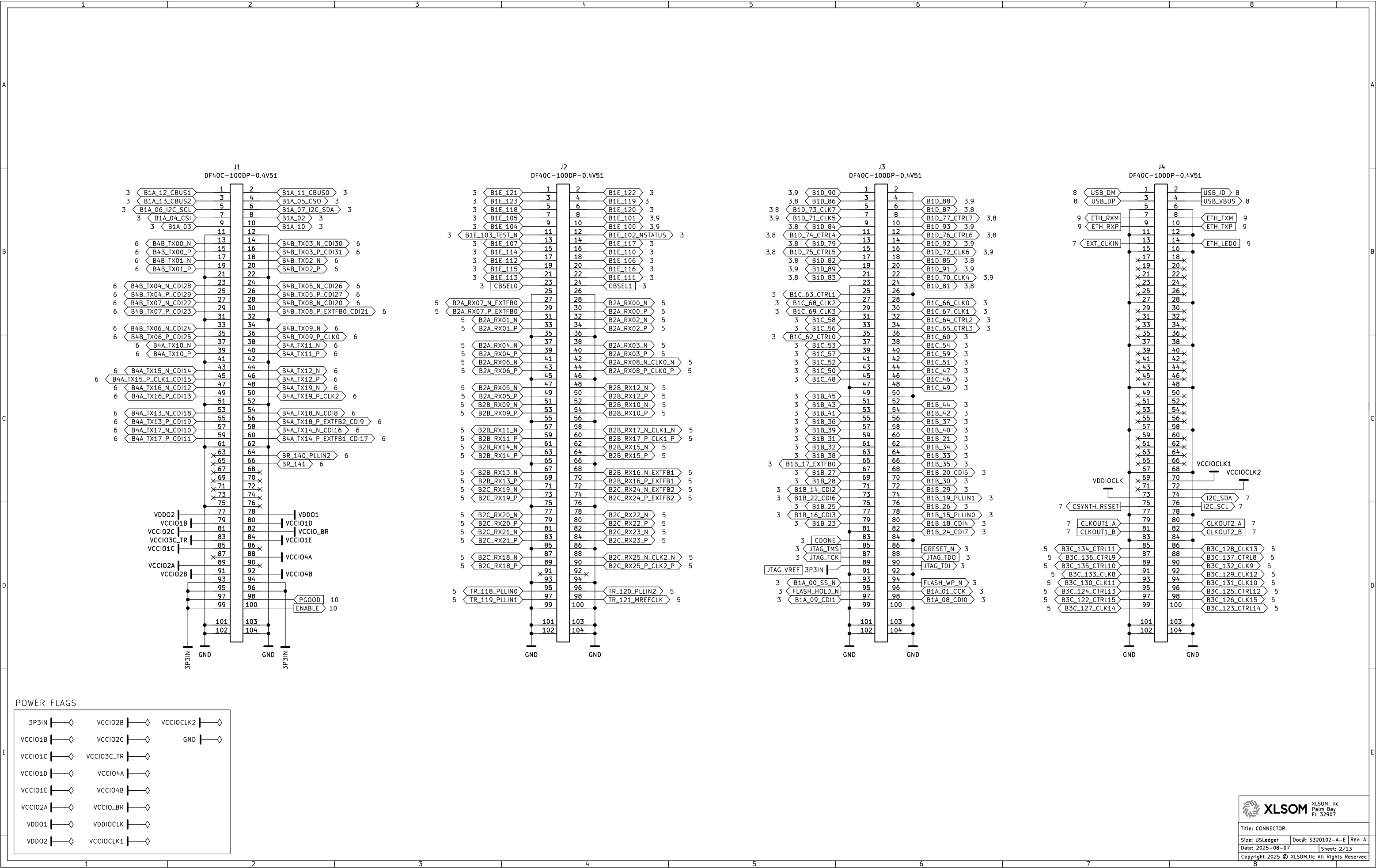
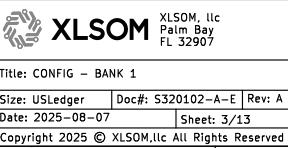
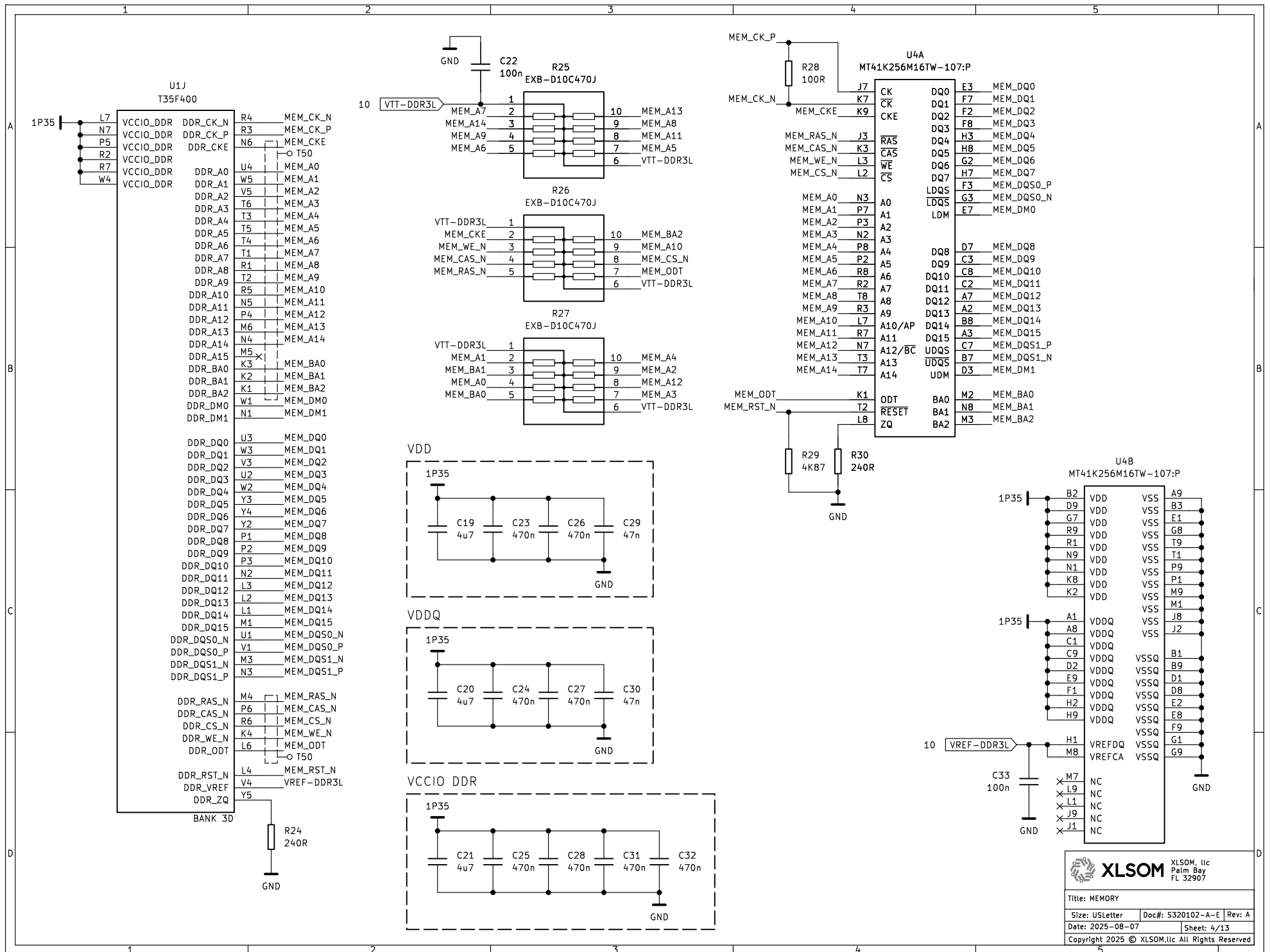
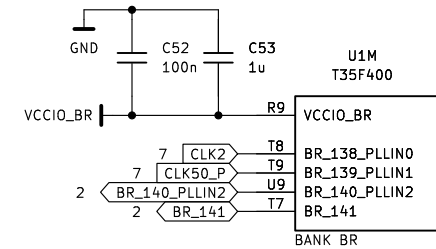
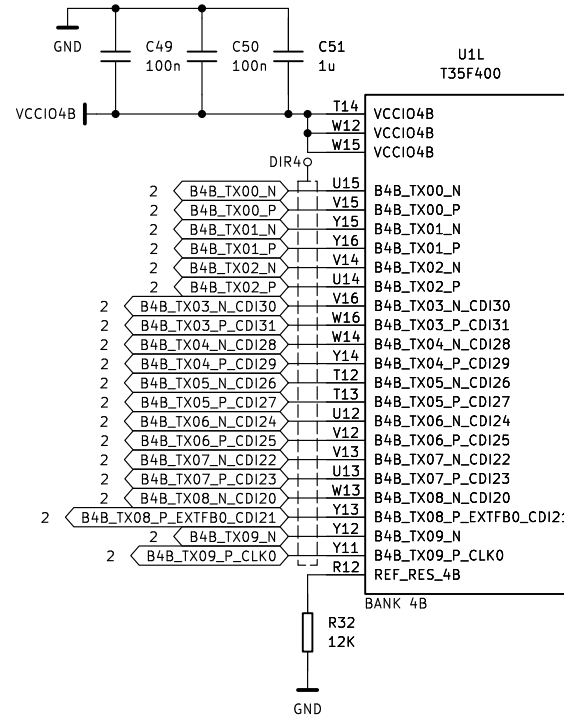
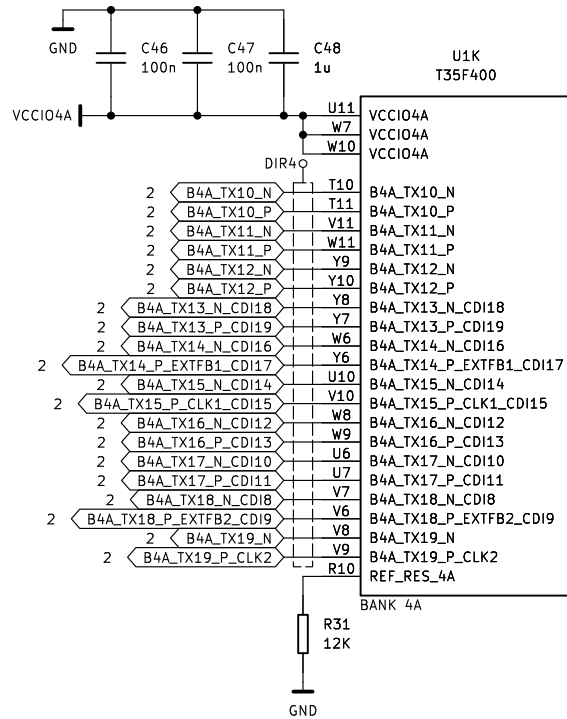


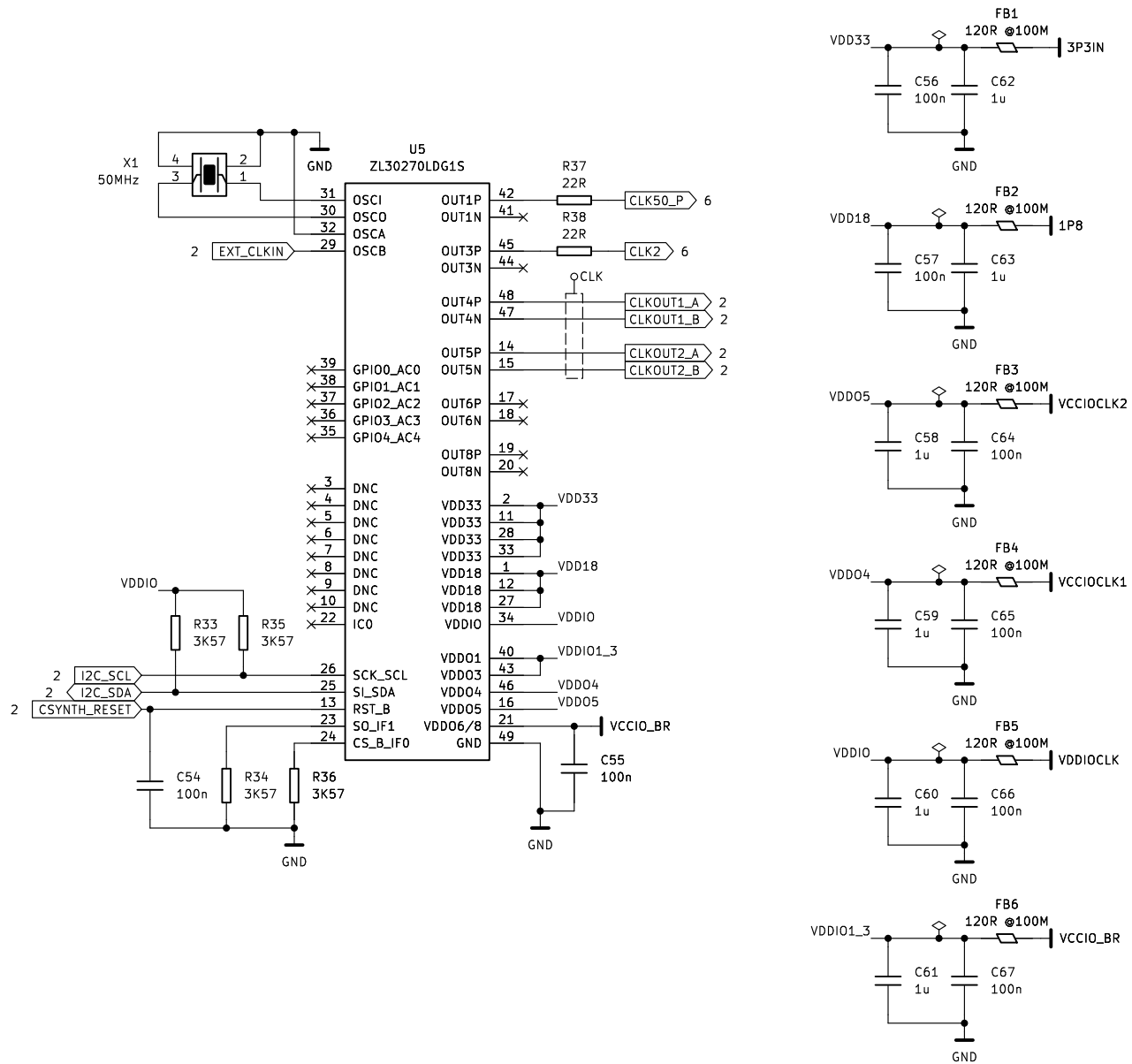


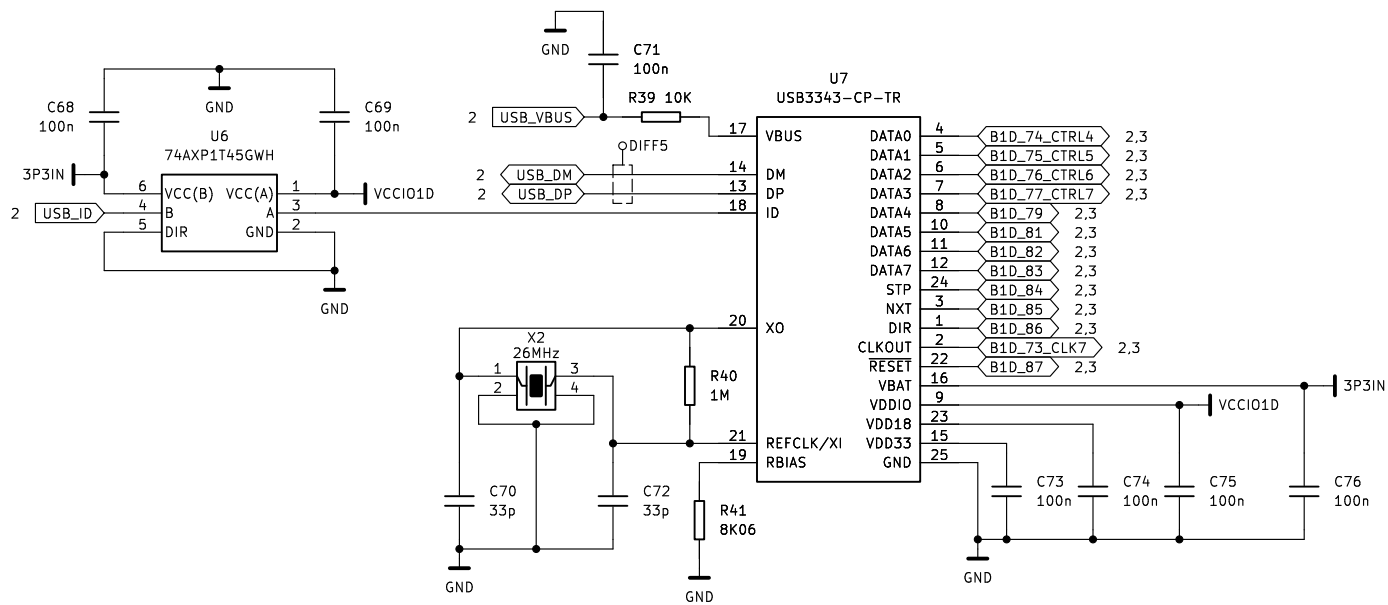


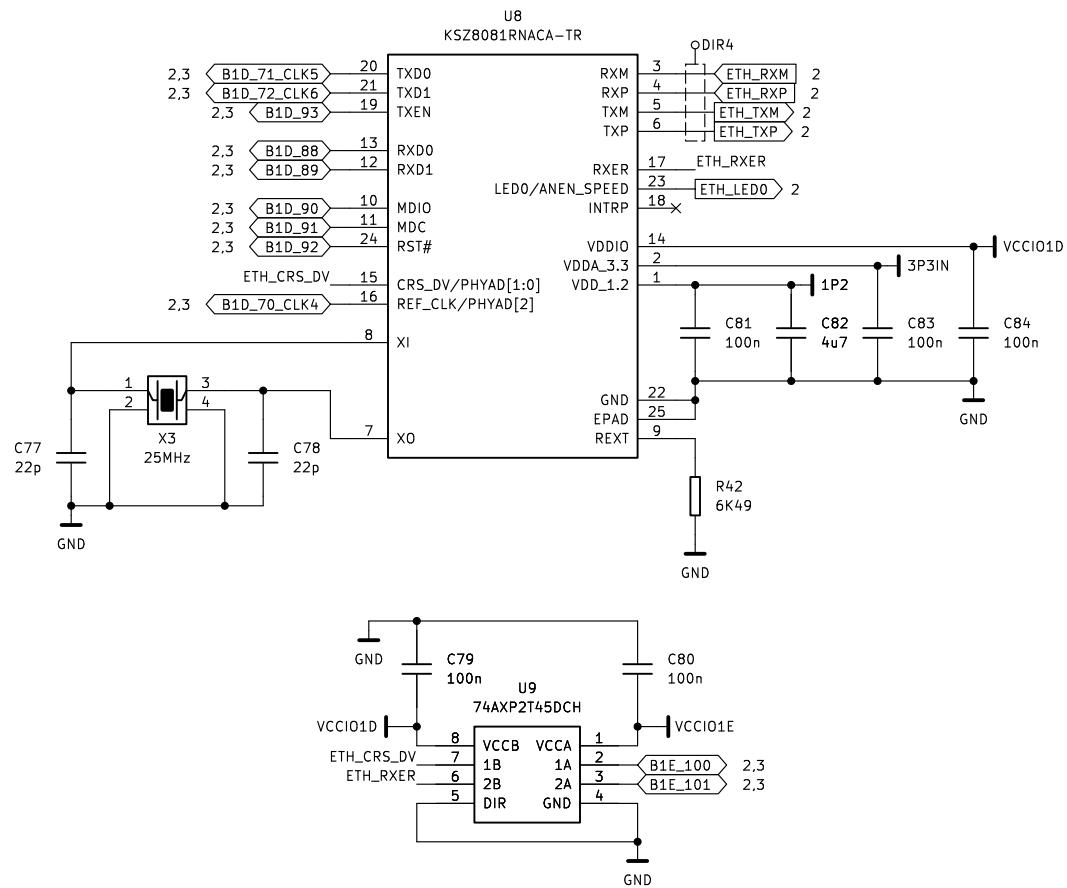












XLSOM

Doc Title: XLM3201 FPGA Module

Doc Type: BOM

PN: 3201-05

Revision: A

Date: 25/07/08

Doc#: B3201-05-A-E

Item	Qty	Reference	Value	Description	Footprint	Mfr	PN
A	1	20	C1,C5,C10,C11,C17,C18,C38,C39,C44,C45,C48,C51,C53,C58,C59,C60,C61,C62,C63,C89	CAP CER 1UF 6.3V X5R 0402	modules:C_0402_1005Metric	KEMET	C0402C105K9PACTU
	2	60	C2,C3,C4,C6,C7,C8,C9,C12,C13,C14,C15,C16,C22,C33,C34,C35,C36,C37,C40,C41,C42,C43,C46,C47,C49,C50,C53,C54,C55,C56,C57,C64,C65,C66,C67,C68,C69,C71,C73,C74,C75,C76,C79,C80,C81,C83,C84,C85,C87,C94,C95,C98,C99,C100,C101,C102,C103,C104,C106,C107	CAP CER 0.1UF 16V X7R 0402	modules:C_0402_1005Metric	Walsin Technology Corp.	0402B104K160CT
	3	7	C19,C20,C21,C82,C90,C91,C105	CAP CER 4.7UF 6.3V X5R 0402	modules:C_0402_1005Metric	Murata	GRM155R60J475ME87D
	4	8	C23,C24,C25,C26,C27,C28,C31,C32	CAP CER 0.47UF 6.3V X5R 0402	modules:C_0402_1005Metric	Murata	GRM155R60J474KE19D
	5	2	C29,C30	CAP CER 0.047UF 6.3V X5R 0402	modules:C_0402_1005Metric	Murata	GRM155R60J473KA01D
	6	2	C70,C72	CAP CER 33PF 50V COG/NPO 0402	modules:C_0402_1005Metric	Murata	GRM1555C1H330JA01D
	7	2	C77,C78	CAP CER 22PF 50V COG/NPO 0402	modules:C_0402_1005Metric	Murata	GCM1555C1H220FA16D
	8	2	C86,C88	CAP CER 22UF 6.3V X5R 0402	modules:C_0402_1005Metric	Murata	GRM158R60J226ME01D
	9	5	C92,C93,C96,C97,C108	CAP CER 47UF 6.3V X5R 0603	modules:C_0603_1608Metric	Murata	GRM188R60J476ME15D
	10	3	D1,D2,D3	B2841NG-05D000514U1930 LED GREEN CLEAR SMD	modules:LED_0402_1005Metric	Harvatek	B2841NG-05D000514U1930
	11	1	D4	B1811URO-20D000113U1930 LED RED DIFFUSED SMD	modules:LED_0402_1005Metric	Harvatek	B1811URO-20D000113U1930
	12	6	FB1,FB2,FB3,FB4,FB5,FB6	120R @100M FERRITE BEAD 120 OHM 0402 11N	modules:L_0402_1005Metric	Murata	BLM15PX121SN1D
B	13	1	FB7	33R @100M FERRITE BEAD 33 OHM 0402 11N	modules:L_0402_1005Metric	Murata	BLM15PX330SN1D
	14	4	J1,J2,J3,J4	DF40C-1000P-0.4V(51) CONN PLUG 100POS SMD GOLD	modules:HIROSE_DF40C-1000P-0.4V(51)	Hirose	DF40C-1000P-0.4V(51)
	15	1	Q1	SSM6N35AFE_LF ES6 MOSFET 2N-CH 20V 0.25A	modules:SSM6N35AFE_LF_ES6_TOS	Toshiba Semiconductor	SSM6N35AFE_LF
	16	1	Q2	NTA7002NT1G SC75 MOSFET N-CH 30V 154MA	modules:NTA7002NT1G_SOT416_1P65X0P9_ONS	Onsemi	NTA7002NT1G
	17	22	R1,R2,R3,R4,R5,R6,R7,R8,R9,R11,R12,R13,R14,R15,R16,R17,R18,R21,R39,R43,R44,R45	10K RES 10K OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT10K0
	18	1	R10	324K RES 324K OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT324K
	19	4	R19,R20,R22,R23	220R RES 220 OHM 5% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402JT220R
	20	2	R24,R30	240R RES 240 OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT240R
	21	3	R25,R26,R27	EXB-D10C470J RES ARRAY 8 RES 47 OHM 1206	modules:RNET_PAN_RESCA_V63P320X160X65-10N	Panasonic	EXB-D10C470J
	22	1	R28	100R RES 100 OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT100R
C	23	1	R29	4K87 RES 4.87K OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT4K87
	24	2	R31,R32	12K RES 12K OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT12K0
	25	4	R33,R34,R35,R36	3K57 RES 100K OHM 5% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402JT100K
	26	2	R37,R38	22R RES 22 OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT22R0
	27	1	R40	1M RES 1M OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT1M00
	28	1	R41	8K06 RES 8.06K OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT8K06
	29	1	R42	6K49 RES 6.49K OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT6K49
	30	1	R46	30K RES 30K OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT30K0
	31	3	R47,R48,R49	20K RES 20K OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT20K0
	32	1	R50	16K RES 16K OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT16K0
D	33	1	U1	T35F400 IC FPGA TRION T35 230 IO 400FBGA	modules:EFINIX-T400-FBGA	Efinix	T35F400XX
	34	1	U2	W25Q128JVPQI IC FLASH 128MBIT SPI/QUAD 8WSION	modules:W25Q128JVPQI_TR	Winbond	W25Q128JVPQI
	35	1	U3	MIC803_SC-70 IC SUPERVISOR 1 CHANNEL SC70-3	Package_TO_SOT_SMD:SOT-23	Microchip	MCP100T-XXX
	36	1	U4	MT41K256M16TW-107-P IC DRAM 4GBIT PAR 96FBGA	modules:MT41K256M16TW-107-P_FBGA96_8X34_MRN	Micron Technology	MT41K256M16TW-93-P
	37	1	U5	ZL30270LDG1S 6-OUTPUT CLOCK GENERATOR (APLL-C)	modules:MICROCHIP_VQFN48_MAC_MCH	Microchip	ZL30270LDG1S
	38	1	U6	74AXP1T45GWH IC XLTR VL BIDIR 8-TSSOP	modules:NEXPERIA_SC-88-SOT363_NEX	Nexperia	74AXP1T45GWH
	39	1	U7	USB3343-CP-TR IC TRANSCEIVER 1/1 24QFN	modules:MICROCHIP_USB3343_CP_QFN24_4X4M_MCH	Microchip	USB3343-CP-TR
	40	1	U8	KSZ8081RNACA-TR IC TRANSCEIVER FULL 1/1 24QFN	modules:MICROCHIP_KSZ8081RNA_QFN24_4X4M_MCH	Microchip	KSZ8081RNACA-TR
	41	1	U9	74AXP2T45DCH IC XLTR VL BIDIR 8-VSSOP	modules:NEXPERIA_VSSOP8-SOT785-1	Nexperia	74AXP2T45DCH
	42	1	U10	MPM5432GPB-0000 16V_3A_Dual-Output Power Module with I2C Interface	modules:MPS_ECLGA	Monolithic Power Systems	MPM5432GPB-0000
43	1	U11	LP2998MRX/NOPB IC REG CONV DDR 1OUT 8SOPWRPAD	modules:TL2998MRX_SOIC12-7P620X168-9N	Texas Instruments	LP2998MRX/NOPB	
44	1	X1	50MHz CRYSTAL 50.000 MHZ 8 PF SMD	modules:XTAL_ECS-250-18-36-AGM-TR	ECS	ECS-500-8-33B-CTR-TR	
45	1	X2	26MHz CRYSTAL 26.0000MHZ 18PF SMD	modules:ABRACON_ABM8-26.000MHZ-D1G-T	Citizen Finedevice	CS325S26000000ABJT	

XLSOM

Title: BOM 3201-05

Size: USLetter

Date: 2025-08-07

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Doc#: 5320102-A-E

Rev: A

Sheet: 11/13

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Palm Bay

FL 32907

1					2					3					4					5					
XLSOM Doc Title: XLM3201 FPGA Module Doc Type: BOM PN: 3202-05 Revision: A Date: 25/07/08 Doc#: B3202-05-A-E																									
Item	Qty	Reference	Value	Description	Footprint	Mfr	PN																		
A	1	20	C1,C5,C10,C11,C17,C18,C38,C39,C44,C45,C48,C51,C53,C58,C59,C60,C61,C62,C63,C69	1u	CAP CER 1UF 6.3V X5R 0402	modules:C_0402_1005Metric	KEMET	C0402C105K9PACTU																	
	2	60	C2,C3,C4,C6,C7,C8,C9,C12,C13,C14,C15,C16,C22,C33,C34,C35,C36,C37,C40,C41,C42,C43,C46,C47,C49,C50,C52,C54,C55,C56,C57,C64,C65,C66,C67,C68,C69,C71,C73,C74,C75,C76,C79,C80,C81,C83,C84,C85,C87,C94,C95,C98,C99,C100,C101,C102,C103,C104,C106,C107	100n	CAP CER 0.1UF 16V X7R 0402	modules:C_0402_1005Metric	Walsin Technology Corp.	0402B104K160CT																	
	3	7	C19,C20,C21,C82,C90,C91,C105	4u7	CAP CER 4.7UF 6.3V X5R 0402	modules:C_0402_1005Metric	Murata	GRM155R60J475ME87D																	
	4	8	C23,C24,C25,C26,C27,C28,C31,C32	470n	CAP CER 0.47UF 6.3V X5R 0402	modules:C_0402_1005Metric	Murata	GRM155R60J474KE19D																	
	5	2	C29,C30	47n	CAP CER 0.047UF 6.3V X5R 0402	modules:C_0402_1005Metric	Murata	GRM155R60J473KA01D																	
	6	2	C70,C72	33p	CAP CER 33PF 50V COG/NP0 0402	modules:C_0402_1005Metric	Murata	GRM1555C1H330JA01D																	
	7	2	C77,C78	22p	CAP CER 22PF 50V COG/NP0 0402	modules:C_0402_1005Metric	Murata	GCM1555C1H220FA16D																	
	8	2	C86,C88	22u	CAP CER 22UF 6.3V X5R 0402	modules:C_0402_1005Metric	Murata	GRM158R60J226ME01D																	
	9	5	C92,C93,C96,C97,C108	47u	CAP CER 47UF 6.3V X5R 0603	modules:C_0603_1608Metric	Murata	GRM188R60J476ME15D																	
	B	10	3	D1,D2,D3	B2841NG--05D000514U1930	LED GREEN CLEAR SMD	modules:LED_0402_1005Metric	Harvatek	B2841NG--05D000514U1930																
11		1	D4	B1811URO-20D000113U1930	LED RED DIFFUSED SMD	modules:LED_0402_1005Metric	Harvatek	B1811URO-20D000113U1930																	
12		6	FB1,FB2,FB3,FB4,FB5,FB6	120R @100M	FERRITE BEAD 120 OHM 0402 1LN	modules:t_0402_1005Metric	Murata	BLM15PX121SN1D																	
13		1	FB7	33R @100M	FERRITE BEAD 33 OHM 0402 1LN	modules:L_0402_1005Metric	Murata	BLM15PX330SN1D																	
14		4	J1,J2,J3,J4	DF40C-100DP-0.4V51	CONN PLUG 100POS SMD GOLD	modules:HIROSE_DF40C-100DP-0.4V51	Hirose	DF40C-100DP-0.4V(51)																	
15		1	Q1	SSM6N3SAFE_LF	MOSFET 2N-CH 20V 0.25A ES6	modules:SSM6N3SAFE_LF_ES6_TOS	Toshiba Semiconductor	SSM6N3SAFE_LF																	
16		1	Q2	NTA7002NT1G	MOSFET N-CH 30V 154MA SC75	modules:NTA7002NT1G_SOT-416_1P65X0P9_ONS	Onsemi	NTA7002NT1G																	
17		22	R1,R2,R3,R4,R5,R6,R7,R8,R9,R11,R12,R13,R14,R15,R16,R17,R18,R21,R39,R43,R44,R45	10K	RES 10K OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT10K0																	
18		1	R10	324K	RES 324K OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT324K																	
19		4	R19,R20,R22,R23	220R	RES 220 OHM 5% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402JT220R																	
C	20	2	R24,R30	240R	RES 240 OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT240R																	
	21	3	R25,R26,R27	EXB-D10C470J	RES ARRAY 8 RES 47 OHM 1206	modules:RNET_PAN_RESCA_V63P320X160XB5-10N	Panasonic	EXB-D10C470J																	
	22	1	R28	100R	RES 100 OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT100R																	
	23	1	R29	4K87	RES 4.87K OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT4K87																	
	24	2	R31,R32	12K	RES 12K OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT12K0																	
	25	4	R33,R34,R35,R36	3K57	RES 100K OHM 5% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402JT100K																	
	26	2	R37,R38	22R	RES 22 OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT22R0																	
	27	1	R40	1M	RES 1M OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT1M00																	
	28	1	R41	8K06	RES 8.06K OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT8K06																	
	29	1	R42	6K49	RES 6.49K OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT6K49																	
D	30	1	R46	30K	RES 30K OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT30K0																	
	31	3	R47,R48,R49	20K	RES 20K OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT20K0																	
	32	1	R50	16K	RES 16K OHM 1% 1/16W 0402	modules:R_0402_1005Metric	Stackpole	RMCF0402FT16K0																	
	33	1	U1	T55F400	IC FPGA TRION T55 230 IO 400FBGA	modules:EFINIX-T400-FBGA	Efinix	T55F400XX																	
	34	1	U2	W25Q128JVP1Q	IC FLASH 128MBIT SPIQUAD 8WS0N	modules:W25Q128JVP1Q_TR	Winbond	W25Q128JVP1Q																	
	35	1	U3	MIC803_SC-70	IC SUPERVISOR 1 CHANNEL SC70-3	Package_TO_SOT_SMD-SOT-23	Microchip	MCP100T-XXX																	
	36	1	U4	MT41K256M16TW-107-P	IC DRAM 4GBIT PAR 16FBGA	modules:MT41K256M16TW_107_P_FBGAA6_8X14_MRN	Micron Technology	MT41K256M16TW-93-P																	
	37	1	U5	ZL30270LDG1S	6-OUTPUT CLOCK GENERATOR (APLL-O	modules:MICROCHIP_VQFN48_MAC_MCH	Microchip	ZL30270LDG1S																	
	38	1	U6	74AXP1T45GWH	IC XLTR VL BIDIR 6-TSSOP	modules:NEXPERIA_SC-88-SOT363_NEX	Nexperia	74AXP1T45GWH																	
	39	1	U7	USB3343-CP-TR	IC TRANSCEIVER 1/1 24QFN	modules:MICROCHIP_USB3343_CP_QFN24_4X4MCMCH	Microchip	USB3343-CP-TR																	
D	40	1	U8	KSZ8081RNACA-TR	IC TRANSCEIVER FULL 1/1 24QFN	modules:MICROCHIP_KSZ8081RNA_QFN24_4X4MCMCH	Microchip	KSZ8081RNACA-TR																	
	41	1	U9	74AXP2T45DCH	IC XLTR VL BIDIR 8-VSSOP	modules:NEXPERIA_VSSOP8-SOT765-1	Nexperia	74AXP2T45DCH																	
	42	1	U10	MPM54322GPB-0000	16V, 3A, Dual-Output Power Module with I2C Interface	modules:MPS_ECLGA	Monolithic Power Systems	MPM54322GPB-0000																	
	43	1	U11	LP2998MRX/NOPB	IC REG CONV DDR 1.0UT 8SOPWRPAD	modules:LP2998MRX_SOIC12-7P620X168-9N	Texas Instruments	LP2998MRX/NOPB																	
	44	1	X1	50MHz	CRYSTAL 50.000 MHZ 8 PF SMD	modules:XTAL_ECS-250-18-36-AGM-TR	ECS	ECS-500-8-33B-CTN-TR																	
	45	1	X2	26MHz	CRYSTAL 26.0000MHZ 18PF SMD	modules:ABRACON_ABM8-26.000MHZ-D1G-T	Citizen Finedevice	CS325S26000000ABJT																	
	1			2			3			4			5												
XLSOM Title: BOM 3202-05 Date: 2025-08-07 Size: USLetter Doc#: S320102-A-E Rev: A Sheet: 12/13 Copyright 2025 © XLSOM,Inc All Rights Reserved																									

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Title: BOM 3202-05

Size: USLetterDoc#: 5320102-A-ERev: A

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