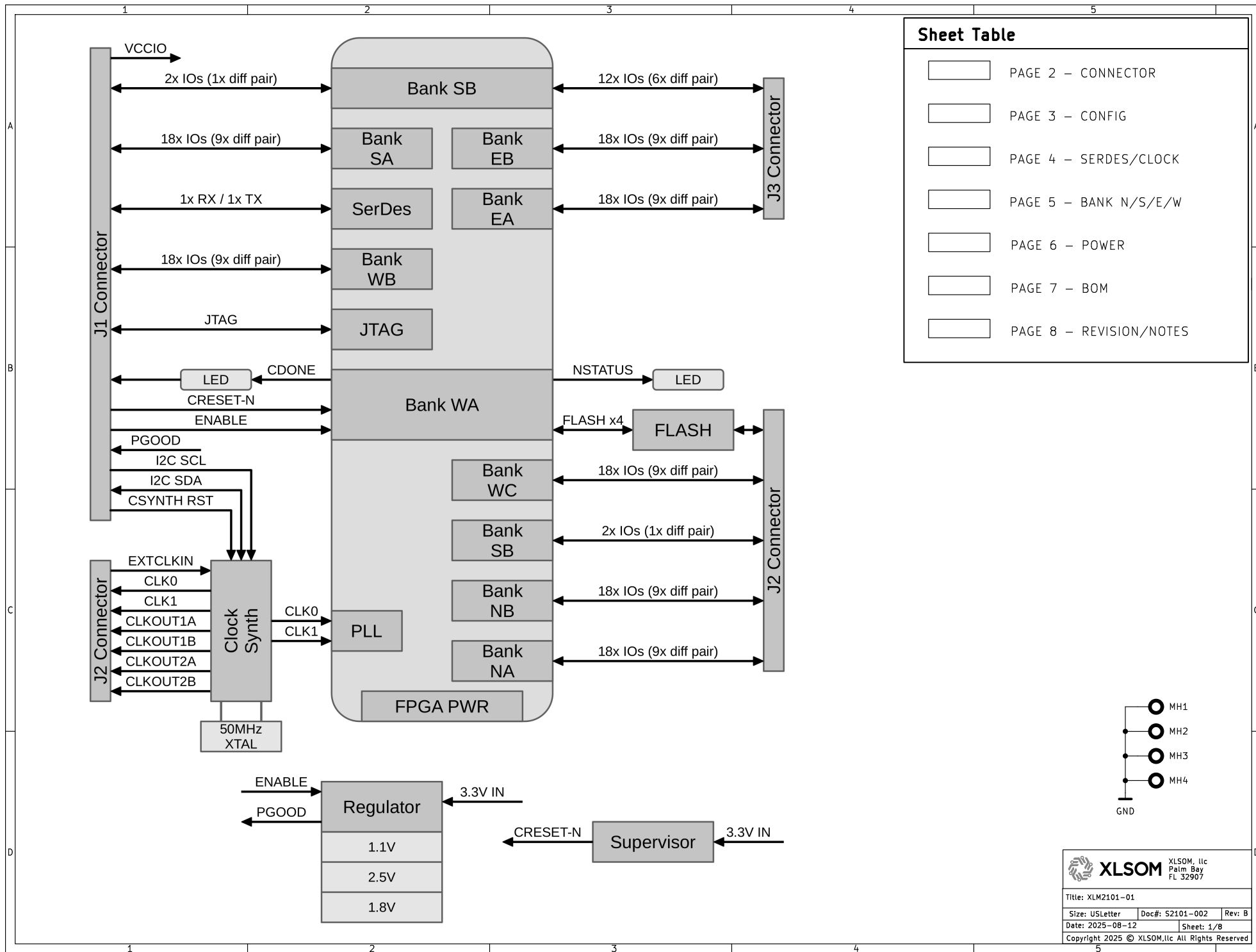
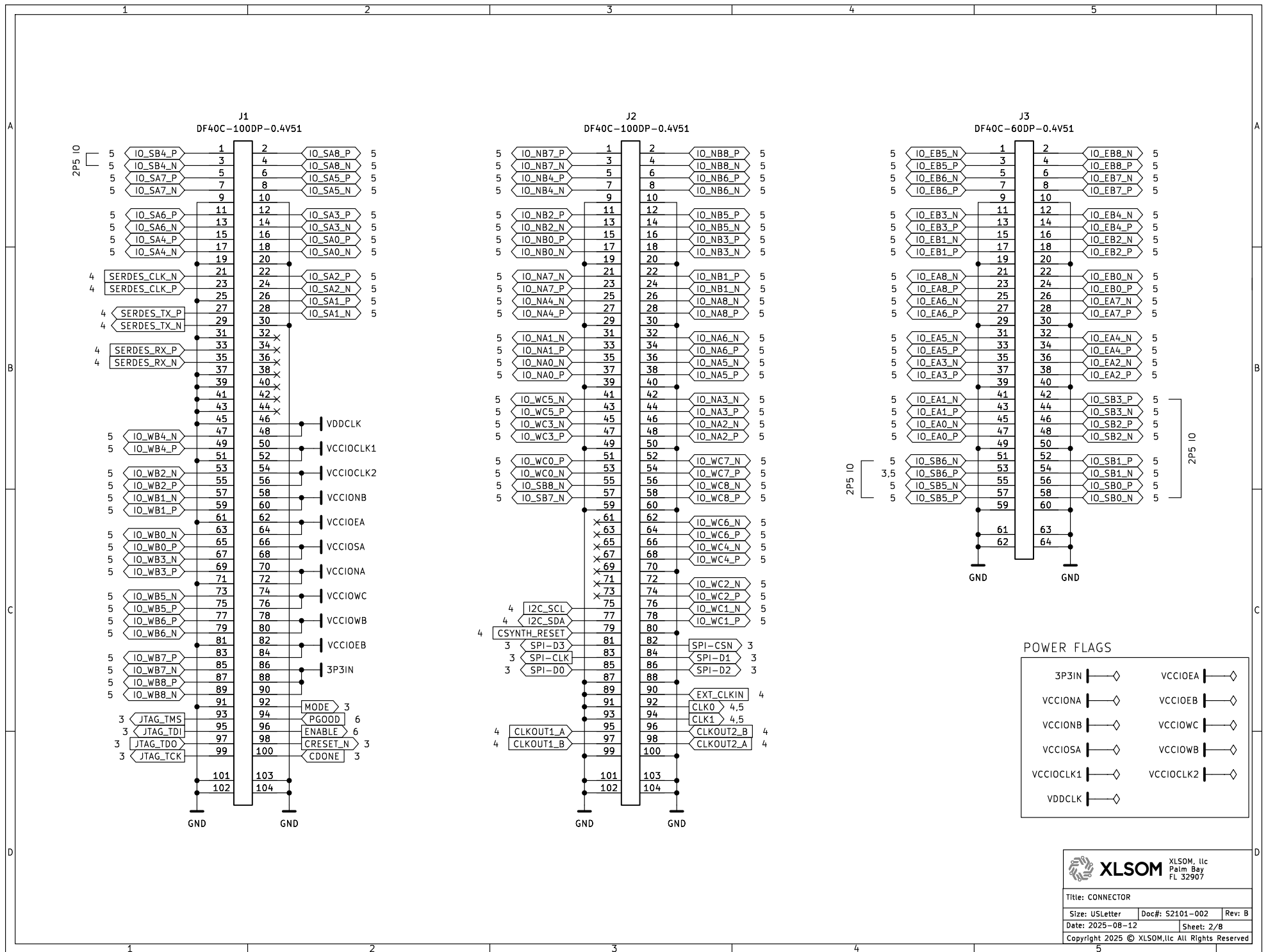
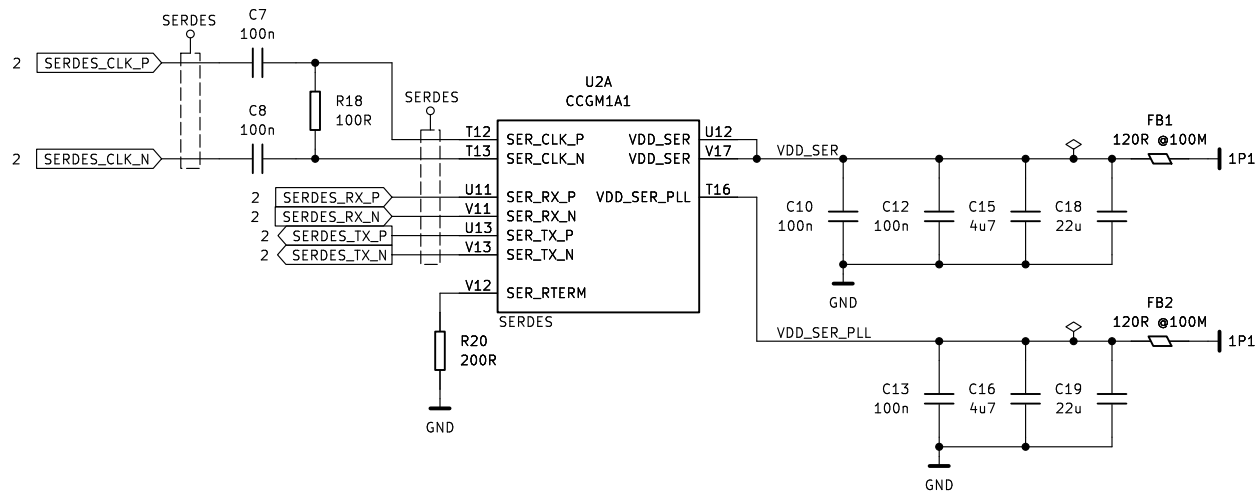
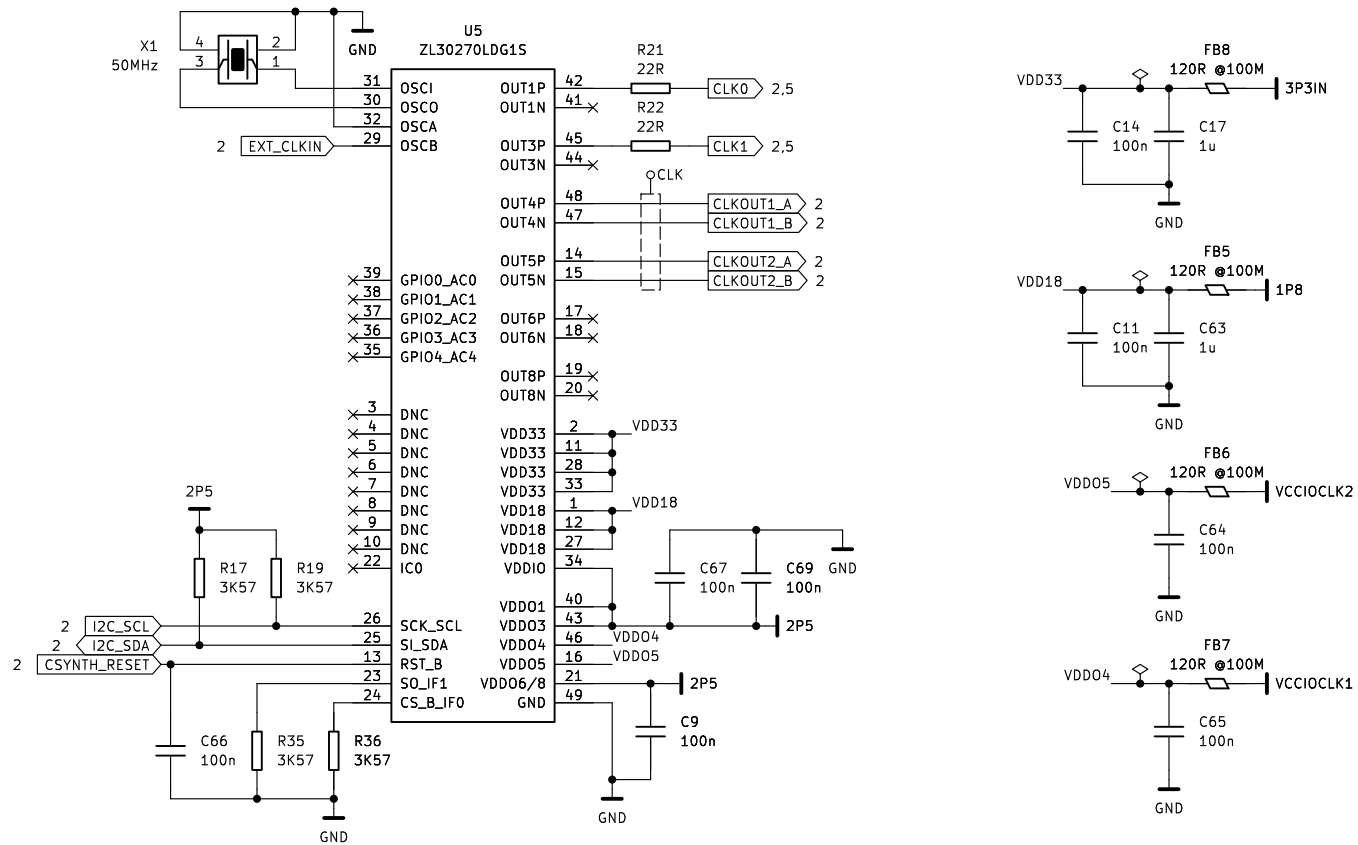




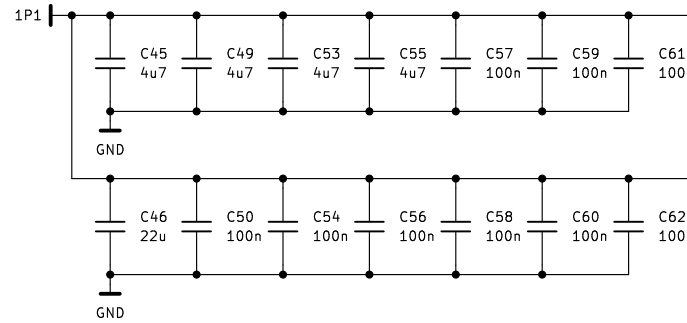
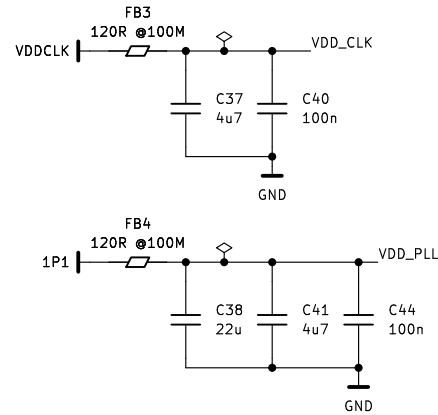
SERDES



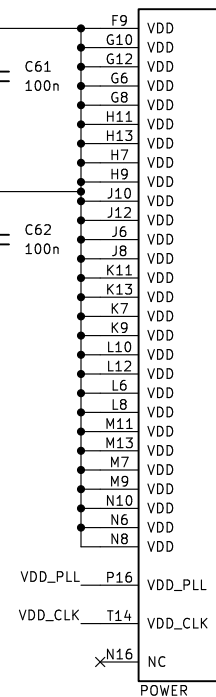
CLOCK SYNTH



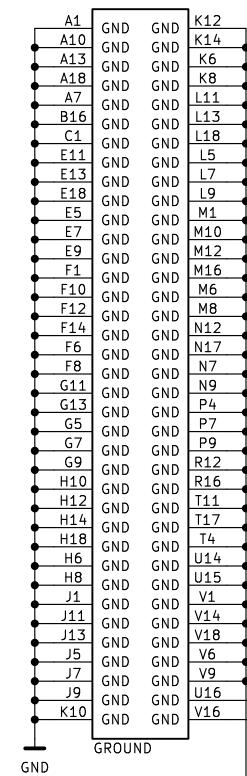
FPGA POWER



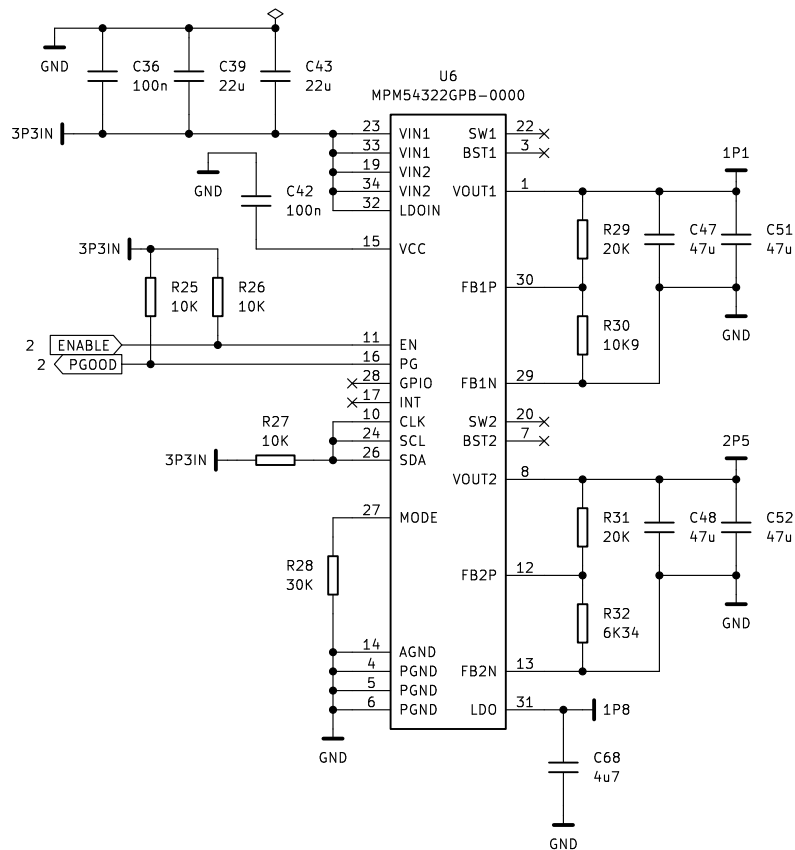
U2G
CCGM1A1



U2H
CCGM1A1



REGULATOR



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XLSOM Doc Title: XLM2101 FPGA Module Doc Type: BOM PN: 2101-01 Revision: B Date: 25/08/12 Doc#: B2101-B-E											
A	Item	Qty	Reference	Value	Description	Footprint	Mfr	PN			
	1	28	C1,C6,C7,C8,C9,C10,C11,C12,C13,C14,C36,C40,C42,C44,C50,C54,C56,C57,C58,C59,C60,C61,C62,C64,C65,C66,C67,C69	100n	modules:C_0402_1005Metric	Walsin Technology Corp.	0402B104K160CT	CAP CER 0.1UF 16V X7R 0402			
	2	18	C4,C5,C20,C21,C22,C23,C24,C25,C26,C27,C28,C29,C30,C31,C32,C33,C34,C35	470n	modules:C_0402_1005Metric	Samsung Electro-Mechanics	CL05Y474KP5VPJC	CAP CER 470NF 10V X7S 0402			
	3	9	C15,C16,C37,C41,C45,C49,C53,C55,C68	4u7	modules:C_0402_1005Metric	Murata	GRM155R60J475ME87D	CAP CER 4.7UF 6.3V X5R 0402			
	4	2	C17,C63	1u	modules:C_0402_1005Metric	KEMET	C0402C105K9PACTU	CAP CER 1UF 6.3V X5R 0402			
	5	6	C18,C19,C38,C39,C43,C46	22u	modules:C_0402_1005Metric	Murata	GRM158R60J226ME01D	CAP CER 22UF 6.3V X5R 0402			
B	6	4	C47,C48,C51,C52	47u	modules:C_0603_1608Metric	Murata	GRM188R60J476ME15D	CAP CER 47UF 6.3V X5R 0603			
	7	2	D1,D2	B2841NG--05D000514U1930	modules:LED_0402_1005Metric_A	Harvatek	B2841NG--05D000514U1930	LED GREEN CLEAR SMD			
	8	1	D3	B1811URO-20D000113U1930	modules:LED_0402_1005Metric_A	Harvatek	B1811URO-20D000113U1930	LED RED DIFFUSED SMD			
	9	8	FB1,FB2,FB3,FB4,FB5,FB6,FB7,FB8	120R @100M	modules:L_0402_1005Metric	Murata	BLM15PX121SN1D	FERRITE BEAD 120 OHM 0402 1LN			
	10	2	J1,J2	DF40C-100DP-0.4V51	modules:HIROSE_DF40C-100DP-0.4V51	Hirose	DF40C-100DP-0.4V(51)	CONN PLUG 100POS SMD GOLD			
	11	1	J3	DF40C-60DP-0.4V51	modules:HIROSE_DF40C-60DP-0.4V51	Hirose	DF40C-60DP-0.4V(51)	CONN PLUG 60POS SMD GOLD			
	12	2	Q1,Q2	SSM6N35AFE_LF	modules:SSM6N35AFE_LF_ES6_TOS	Toshiba Semiconductor	SSM6N35AFE,LF	MOSFET 2N-CH 20V 0.25A ES6			
	13	12	R1,R2,R3,R5,R6,R11,R12,R15,R17,R19,R35,R36	3K57	modules:R_0402_1005Metric	Stackpole	RMCF0402JT100K	RES 100K OHM 5% 1/16W 0402			
	14	11	R4,R9,R10,R14,R16,R25,R26,R27,R37,R38,R39	10K	modules:R_0402_1005Metric	Stackpole	RMCF0402FT10K0	RES 10K OHM 1% 1/16W 0402			
	15	3	R7,R8,R13	240R	modules:R_0402_1005Metric	Stackpole	RMCF0402JT220R	RES 220 OHM 5% 1/16W 0402			
C	16	1	R18	100R	modules:R_0402_1005Metric	Stackpole	RMCF0402FT100R	RES 100 OHM 1% 1/16W 0402			
	17	1	R20	200R	modules:R_0402_1005Metric	Stackpole	RMCF0402FT200R	RES 200 OHM 1% 1/16W 0402			
	18	4	R21,R22,R23,R24	22R	modules:R_0402_1005Metric	Stackpole	RMCF0402FT22R0	RES 22 OHM 1% 1/16W 0402			
	19	1	R28	30K	modules:R_0402_1005Metric	Stackpole	RMCF0402FT30K0	RES 30K OHM 1% 1/16W 0402			
	20	2	R29,R31	20K	modules:R_0402_1005Metric	Stackpole	RMCF0402FT20K0	RES 20K OHM 1% 1/16W 0402			
	21	1	R30	10K9	modules:R_0402_1005Metric	KOA Speer	RN73H1ETTP1092F50	RES 10.9K OHM 1% 1/16W 0402			
	22	1	R32	6K34	modules:R_0402_1005Metric	Stackpole	RMCF0402FT6K34	RES 6.34K OHM 1% 1/16W 0402			
	23	2	R33,R34	0R	modules:R_0402_1005Metric	Stackpole	RMCF0402ZT0R00	RES 0 OHM JUMPER 1/16W 0402			
	24	1	U1	MIC803_SC-70	Package_TO_SOT_SMD:SOT-23	Microchip	MIC803-31D2VC3-TR	IC SUPERVISOR 1 CHANNEL SOT23-3			
	25	1	U2	CCGM1A1	modules:COLOGNE_CCGM1A1_BGA-324_15x15mm_Layout18x18_P0.8mm	Cologne Chip	CCGM1A1-BGA324	Cologne Chip GateMate FPGA, BGA-324			
D	26	1	U4	MT25QU128ABA1EW7-OSIT	modules:W25Q128JVPIQ-TR	Micron	MT25QU128ABA1EW7-0SIT	IC FLASH 128MBIT SPI 8WPDFN			
	27	1	U5	ZL30270LDG1S	modules:MICROCHIP_VQFN48_MAC_MCH	Microchip	ZL30270LDG1S	6-OUTPUT CLOCK GENERATOR (APLL-O			
	28	1	U6	MPM54322GPB-0000	modules:MPS_ECLGA	Monolithic Power Systems	MPM54322GPB-0000	16V, 3A, Dual-Output Power Module with I2C Interface			
	29	1	X1	50MHz	modules:XTAL_ECS-250-18-36-AGM-TR	ECS	ECS-500-8-33B-CTN-TR	CRYSTAL 50.000 MHZ 8 PF SMD			
		1		2		3		4		5	
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REVISION HISTORY

DRAWN	REV	SHEET	ZONE	DESCRIPTION	DATE
CRC	A	ALL	ALL	PRE-RELEASE	06/18/25
CRC	A	ALL	ALL	UPDATE TITLEBLOCK, REV HISTORY BLOCK	06/18/25
CRC	B	ALL	ALL	CHANGE U5 TO ZL30270	08/12/25

A

B

C

D

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1. The requirements of the European Union RoHS 2 Directive 2017/2102 (Amendment to 2011/65/EU) with no exceptions unless authorized.
2. The requirements of EC 1907/2006 and not contain any of the Substances of Very High Concern (SVHC) listed under the latest REACH requirements. (Amendments EU 2017/999, EU 2017/1510, EU 2018/35).

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These changes will be maintained in the document revision history via ECN.

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Palm Bay
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