

Pin List: ZEM5310

2024-10-15

Connector	Pin	FPGA Pin	Description	Length (mm)	I/O Bank	Controlled Impedance	BRK5310
MC1	1		+5VDC				MC1A-1
MC1	2		DGND				MC1A-2
MC1	3		+5VDC				MC1A-3
MC1	4		+1.2VDC				MC1A-4
MC1	5		+5VDC				MC1A-5
MC1	6		+1.2VDC				MC1A-6
MC1	7		+2.5VDC				MC1A-7
MC1	8	M22	BR_CLKOUT0	37.454	5B	50 Ohm Single-Ended	MC1A-8
MC1	9		+2.5VDC				MC1A-9
MC1	10		VREF_MC1				MC1A-10
MC1	11		+1.8VDC				MC1A-11
MC1	12		VCCPD_MC1				MC1A-12
MC1	13		+1.8VDC				MC1A-13
MC1	14		DGND				MC1A-14
MC1	15	G2	L10p	28.243	2A		MC1A-15
MC1	16	AA2	L16p	17.172	2A		MC1A-16
MC1	17	G1	L10n	26.384	2A		MC1A-17
MC1	18	AA1	L16n	17.023	2A		MC1A-18
MC1	19	D3	L11p	29.600	2A		MC1A-19
MC1	20	L2	L12p	15.183	2A		MC1A-20
MC1	21	E2	L11n	28.967	2A		MC1A-21
MC1	22	L1	L12n	14.167	2A		MC1A-22
MC1	23	Y3	L15p	21.760	2A		MC1A-23
MC1	24	N2	L13p	18.382	2A		MC1A-24
MC1	25	W2	L15n	19.999	2A		MC1A-25
MC1	26	N1	L13n	17.263	2A		MC1A-26
MC1	27	U2	L14p	21.067	2A		MC1A-27
MC1	28	C2	L9p	18.913	2A		MC1A-28
MC1	29	U1	L14n	19.640	2A		MC1A-29
MC1	30	C1	L9n	18.083	2A		MC1A-30
MC1	31	P16	R8p	43.706	5A		MC1A-31

Connector	Pin	FPGA Pin	Description	Length (mm)	I/O Bank	Controlled Impedance	BRK5310
MC1	32	P19	R7p	45.359	5A		MC1A-32
MC1	33	P17	R8n	44.125	5A		MC1A-33
MC1	34	P18	R7n	44.058	5A		MC1A-34
MC1	35		DGND				MC1A-35
MC1	36		VCCIO_MC1				MC1A-36
MC1	37	T18	R2p	35.596	5A		MC1A-37
MC1	38	T19	R1p	35.889	5A		MC1A-38
MC1	39	T17	R2n	34.268	5A		MC1A-39
MC1	40	T20	R1n	37.309	5A		MC1A-40
MC1	41	T15	R4p	32.624	5A		MC1B-1
MC1	42	T22	R3p	39.264	5A		MC1B-2
MC1	43	R15	R4n	32.345	5A		MC1B-3
MC1	44	R22	R3n	39.250	5A		MC1B-4
MC1	45	R16	R6p	36.656	5A		MC1B-5
MC1	46	R21	R5p	37.429	5A		MC1B-6
MC1	47	R17	R6n	38.292	5A		MC1B-7
MC1	48	P22	R5n	38.426	5A		MC1B-8
MC1	49	N19	R11p	38.191	5B		MC1B-9
MC1	50	N20	R10p	42.078	5B		MC1B-10
MC1	51	M18	R11n	37.199	5B		MC1B-11
MC1	52	N21	R10n	43.189	5B		MC1B-12
MC1	53	K17	R13p	40.402	5B		MC1B-13
MC1	54	M20	R14p	43.854	5B		MC1B-14
MC1	55		DGND				MC1B-15
MC1	56		VCCIO_MC1				MC1B-16
MC1	57	L17	R13n	41.338	5B		MC1B-17
MC1	58	M21	R14n	43.871	5B		MC1B-18
MC1	59	L19	R15p	41.539	5B		MC1B-19
MC1	60	K21	R16p	37.024	5B		MC1B-20
MC1	61	L18	R15n	40.429	5B		MC1B-21
MC1	62	K22	R16n	37.519	5B		MC1B-22
MC1	63		NC				MC1B-23
MC1	64		NC				MC1B-24
MC1	65		NC				MC1B-25

Connector	Pin	FPGA Pin	Description	Length (mm)	I/O Bank	Controlled Impedance	BRK5310
MC1	66		NC				MC1B-26
MC1	67		NC				MC1B-27
MC1	68		NC				MC1B-28
MC1	69		NC				MC1B-29
MC1	70		NC				MC1B-30
MC1	71		NC				MC1B-31
MC1	72		NC				MC1B-32
MC1	73		NC				MC1B-33
MC1	74		NC				MC1B-34
MC1	75		NC				MC1B-35
MC1	76		NC				MC1B-36
MC1	77	N16	CLK6p	44.374	5B	100 Ohm Differential	MC1B-37
MC1	78		DGND				MC1B-38
MC1	79	M16	CLK6n	44.260	5B	100 Ohm Differential	MC1B-39
MC1	80		DGND				MC1B-40
MC2	1		DGND				MC2A-1
MC2	2		+2.5VDC				MC2A-2
MC2	3		NC				
MC2	4		+1.8VDC				MC2A-4
MC2	5		JTAG_TCK				J2-1
MC2	6		+1.2VDC				MC2A-6
MC2	7		JTAG_TMS				J2-5
MC2	8		JTAG_TDO				J2-3
MC2	9		JTAG_TDI				J2-9
MC2	10		VREF_MC2				MC2A-10
MC2	11	L22	BR_CLKOUT1	13.707	5B	50 Ohm Single-Ended	MC2A-11
MC2	12		VCCPD_MC2				
MC2	13		DGND				MC2A-13
MC2	14		DGND				MC2A-14
MC2	15	U13	B26p	22.164	4A		MC2A-15
MC2	16	AB12	B25p	33.306	4A		MC2A-16
MC2	17	V13	B26n	21.761	4A		MC2A-17
MC2	18	AB13	B25n	33.216	4A		MC2A-18
MC2	19	T13	B27p	31.049	4A		MC2A-19

Connector	Pin	FPGA Pin	Description	Length (mm)	I/O Bank	Controlled Impedance	BRK5310
MC2	20	AA13	B28p	33.489	4A		MC2A-20
MC2	21	T12	B27n	32.414	4A		MC2A-21
MC2	22	AA14	B28n	32.996	4A		MC2A-22
MC2	23	Y15	B30p	28.045	4A		MC2A-23
MC2	24	AA15	B29p	36.672	4A		MC2A-24
MC2	25	Y14	B30n	27.820	4A		MC2A-25
MC2	26	AB15	B29n	35.842	4A		MC2A-26
MC2	27	Y17	B34p	20.290	4A		MC2A-27
MC2	28	AB18	B32p	28.854	4A		MC2A-28
MC2	29	Y16	B34n	21.243	4A		MC2A-29
MC2	30	AB17	B32n	30.288	4A		MC2A-30
MC2	31	U15	B35p	26.497	4A		MC2A-31
MC2	32	AB21	B33p	25.549	4A		MC2A-32
MC2	33	T14	B35n	26.148	4A		MC2A-33
MC2	34	AB20	B33n	27.003	4A		MC2A-34
MC2	35		VCCIO_MC2				MC2A-35
MC2	36		DGND				MC2A-36
MC2	37	W19	B38p	20.826	4A		MC2A-37
MC2	38	AA18	B36p	37.673	4A		MC2A-38
MC2	39	V20	B38n	19.838	4A		MC2A-39
MC2	40	AA17	B36n	37.207	4A		MC2A-40
MC2	41	W16	B39p	32.485	4A		MC2B-1
MC2	42	AA20	B37p	36.203	4A		MC2B-2
MC2	43	V16	B39n	35.208	4A		MC2B-3
MC2	44	AA19	B37n	35.773	4A		MC2B-4
MC2	45	Y19	B42p	28.650	4A		MC2B-5
MC2	46	AA22	B40p	32.366	4A		MC2B-6
MC2	47	Y20	B42n	28.193	4A		MC2B-7
MC2	48	AB22	B40n	31.674	4A		MC2B-8
MC2	49	R14	B43p	49.409	4A		MC2B-9
MC2	50	W22	B41p	31.908	4A		MC2B-10
MC2	51	P14	B43n	51.166	4A		MC2B-11
MC2	52	Y22	B41n	31.087	4A		MC2B-12
MC2	53	V18	B46p	27.022	4A		MC2B-13

Connector	Pin	FPGA Pin	Description	Length (mm)	I/O Bank	Controlled Impedance	BRK5310
MC2	54	W21	B44p	34.480	4A		MC2B-14
MC2	55		VCCIO_MC2				MC2B-15
MC2	56		DGND				MC2B-16
MC2	57	V19	B46n	27.523	4A		MC2B-17
MC2	58	Y21	B44n	33.632	4A		MC2B-18
MC2	59	U17	B47p	27.683	4A		MC2B-19
MC2	60	V21	B45p	34.465	4A		MC2B-20
MC2	61	U16	B47n	29.244	4A		MC2B-21
MC2	62	U22	B45n	32.316	4A		MC2B-22
MC2	63	D17	T3p	27.175	7A		MC2B-23
MC2	64	U20	B48p	36.481	4A		MC2B-24
MC2	65	E16	T3n	26.244	7A		MC2B-25
MC2	66	U21	B48n	35.159	4A		MC2B-26
MC2	67	H13	T17p	24.847	7A		MC2B-27
MC2	68	B16	T2p	28.037	7A		MC2B-28
MC2	69	G13	T17n	24.849	7A		MC2B-29
MC2	70	C16	T2n	27.221	7A		MC2B-30
MC2	71	G10	T25p	28.103	8A		MC2B-31
MC2	72	E10	T33p	37.308	8A		MC2B-32
MC2	73	F10	T25n	27.826	8A		MC2B-33
MC2	74	F9	T33n	36.475	8A		MC2B-34
MC2	75		NC				MC2B-35
MC2	76		NC				MC2B-36
MC2	77	V15	CLK2p	36.696	4A	100 Ohm Differential	MC2B-37
MC2	78		DGND				MC2B-38
MC2	79	V14	CLK2n	37.853	4A	100 Ohm Differential	MC2B-39
MC2	80		DGND				MC2B-40