

# Pin List: XEM7310

2025-04-29

Connector	Pin	FPGA Pin	Pin Attributes	Net Name	Length (mm)	I/O Bank	BRK7010
MC1	1			+VDCIN			J1-1
MC1	2			DGND			J1-2
MC1	3			+VDCIN			J1-3
MC1	4		VCCINT,VCCBRAM	+1.0VDD			J1-4
MC1	5			+VDCIN			J1-5
MC1	6		VCCINT,VCCBRAM	+1.0VDD			J1-6
MC1	7		VCCO_0,VCCAUX,VCCO_14,M2_0,M1_0	+1.8VDD			J1-7
MC1	8	AB11	IO_L7P_T1_13	SYS_CLK_MC1	21.574	13	J1-8
MC1	9		VCCO_13	+3.3VDD			J1-9
MC1	10	M9	VN_0	XADC_VN			J1-10
MC1	11		VCCO_13	+3.3VDD			J1-11
MC1	12	L10	VP_0	XADC_VP			J1-12
MC1	13		VCCO_13	+3.3VDD			J1-13
MC1	14			DGND			J1-14
MC1	15	W9	IO_L24P_T3_34	B34_L24P	27.853	34	J1-15
MC1	16	V9	IO_L21P_T3_DQS_34	B34_L21P	23.937	34	J1-16
MC1	17	Y9	IO_L24N_T3_34	B34_L24N	26.696	34	J1-17
MC1	18	V8	IO_L21N_T3_DQS_34	B34_L21N	23.765	34	J1-18
MC1	19	R6	IO_L17P_T2_34	B34_L17P	31.982	34	J1-19
MC1	20	V7	IO_L19P_T3_34	B34_L19P	22.076	34	J1-20
MC1	21	T6	IO_L17N_T2_34	B34_L17N	30.716	34	J1-21
MC1	22	W7	IO_L19N_T3_VREF_34	B34_L19N	20.746	34	J1-22
MC1	23	U6	IO_L16P_T2_34	B34_L16P	27.433	34	J1-23
MC1	24	Y8	IO_L23P_T3_34	B34_L23P	18.093	34	J1-24
MC1	25	V5	IO_L16N_T2_34	B34_L16N	26.926	34	J1-25
MC1	26	Y7	IO_L23N_T3_34	B34_L23N	18.54	34	J1-26
MC1	27	T5	IO_L14P_T2_SRCC_34	B34_L14P	26.503	34	J1-27
MC1	28	W6	IO_L15P_T2_DQS_34	B34_L15P	19.138	34	J1-28
MC1	29	U5	IO_L14N_T2_SRCC_34	B34_L14N	25.608	34	J1-29
MC1	30	W5	IO_L15N_T2_DQS_34	B34_L15N	19.577	34	J1-30
MC1	31	AA5	IO_L10P_T1_34	B34_L10P	21.028	34	J1-31

Connector	Pin	FPGA Pin	Pin Attributes	Net Name	Length (mm)	I/O Bank	BRK7010
MC1	32	R4	IO_L13P_T2_MRCC_34	B34_L13P	27.920	34	J1-32
MC1	33	AB5	IO_L10N_T1_34	B34_L10N	20.134	34	J1-33
MC1	34	T4	IO_L13N_T2_MRCC_34	B34_L13N	25.206	34	J1-34
MC1	35			DGND			J1-35
MC1	36		VCCO_34	VCCO_MC1			J1-36
MC1	37	AB7	IO_L20P_T3_34	B34_L20P	16.234	34	J1-37
MC1	38	Y4	IO_L11P_T1_SRCC_34	B34_L11P	20.129	34	J1-38
MC1	39	AB6	IO_L20N_T3_34	B34_L20N	16.714	34	J1-39
MC1	40	AA4	IO_L11N_T1_SRCC_34	B34_L11N	19.557	34	J1-40
MC1	41	R3	IO_L3P_T0_DQS_34	B34_L3P	26.716	34	J2-1
MC1	42	Y6	IO_L18P_T2_34	B34_L18P	12.947	34	J2-2
MC1	43	R2	IO_L3N_T0_DQS_34	B34_L3N	26.199	34	J2-3
MC1	44	AA6	IO_L18N_T2_34	B34_L18N	11.630	34	J2-4
MC1	45	Y3	IO_L9P_T1_DQS_34	B34_L9P	20.655	34	J2-5
MC1	46	AA8	IO_L22P_T3_34	B34_L22P	9.743	34	J2-6
MC1	47	AA3	IO_L9N_T1_DQS_34	B34_L9N	19.450	34	J2-7
MC1	48	AB8	IO_L22N_T3_34	B34_L22N	8.497	34	J2-8
MC1	49	U2	IO_L2P_T0_34	B34_L2P	22.529	34	J2-9
MC1	50	U3	IO_L6P_T0_34	B34_L6P	16.995	34	J2-10
MC1	51	V2	IO_L2N_T0_34	B34_L2N	21.382	34	J2-11
MC1	52	V3	IO_L6N_T0_VREF_34	B34_L6N	15.659	34	J2-12
MC1	53	W2	IO_L4P_T0_34	B34_L4P	19.256	34	J2-13
MC1	54	W1	IO_L5P_T0_34	B34_L5P	15.830	34	J2-14
MC1	55			DGND			J2-15
MC1	56		VCCO_34	VCCO_MC1			J2-16
MC1	57	Y2	IO_L4N_T0_34	B34_L4N	17.689	34	J2-17
MC1	58	Y1	IO_L5N_T0_34	B34_L5N	13.608	34	J2-18
MC1	59	T1	IO_L1P_T0_34	B34_L1P	21.474	34	J2-19
MC1	60	AB3	IO_L8P_T1_34	B34_L8P	9.054	34	J2-20
MC1	61	U1	IO_L1N_T0_34	B34_L1N	20.217	34	J2-21
MC1	62	AB2	IO_L8N_T1_34	B34_L8N	9.550	34	J2-22
MC1	63	AA1	IO_L7P_T1_34	B34_L7P	15.811	34	J2-23
MC1	64	Y13	IO_L5P_T0_13	B13_L5P	43.978	13	J2-24
MC1	65	AB1	IO_L7N_T1_34	B34_L7N	14.617	34	J2-25

Connector	Pin	FPGA Pin	Pin Attributes	Net Name	Length (mm)	I/O Bank	BRK7010
MC1	66	AA14	IO_L5N_T0_13	B13_L5N	42.695	13	J2-26
MC1	67	AB16	IO_L2P_T0_13	B13_L2P	29.868	13	J2-27
MC1	68	AA13	IO_L3P_T0_DQS_13	B13_L3P	41.798	13	J2-28
MC1	69	AB17	IO_L2N_T0_13	B13_L2N	31.153	13	J2-29
MC1	70	AB13	IO_L3N_T0_DQS_13	B13_L3N	41.239	13	J2-30
MC1	71	AA15	IO_L4P_T0_13	B13_L4P	42.504	13	J2-31
MC1	72	W15	IO_L16P_T2_13	B13_L16P	34.678	13	J2-32
MC1	73	AB15	IO_L4N_T0_13	B13_L4N	41.728	13	J2-33
MC1	74	W16	IO_L16N_T2_13	B13_L16N	36.231	13	J2-34
MC1	75	Y16	IO_L1P_T0_13	B13_L1P	41.295	13	J2-35
MC1	76	AA16	IO_L1N_T0_13	B13_L1N	34.804	13	J2-36
MC1	77	V4	IO_L12P_T1_MRCC_34	B34_L12P_MRCC	26.128	34	J2-37
MC1	78			DGND			J2-38
MC1	79	W4	IO_L12N_T1_MRCC_34	B34_L12N_MRCC	26.447	34	J2-39
MC1	80			DGND			J2-40
MC2	1			DGND			J3-1
MC2	2		VCCO_13	+3.3VDD			J3-2
MC2	3		VCCBATT_0	+VCCBATT			J3-3
MC2	4		VCCO_13	+3.3VDD			J3-4
MC2	5	V12	TCK_0	FPGA_TCK			J6-6
MC2	6		VCCO_13	+3.3VDD			J3-6
MC2	7	T13	TMS_0	FPGA_TMS			J6-4
MC2	8	U13	TDO_0	FPGA_TDO			J6-8
MC2	9	R13	TDI_0	FPGA_TDI			J6-10
MC2	10	F4	IO_0_35	B35_IO0	38.931	35	J3-10
MC2	11	AB12	IO_L7N_T1_13	SYS_CLK_MC2	46.306	13	J3-11
MC2	12	L6	IO_25_35	B35_IO25	38.527	35	J3-12
MC2	13			DGND			J3-13
MC2	14			DGND			J3-14
MC2	15	P5	IO_L21P_T3_DQS_35	B35_L21P	33.833	35	J3-15
MC2	16	P6	IO_L24P_T3_35	B35_L24P	38.057	35	J3-16
MC2	17	P4	IO_L21N_T3_DQS_35	B35_L21N	34.240	35	J3-17
MC2	18	N5	IO_L24N_T3_35	B35_L24N	38.330	35	J3-18
MC2	19	N4	IO_L19P_T3_35	B35_L19P	31.940	35	J3-19

Connector	Pin	FPGA Pin	Pin Attributes	Net Name	Length (mm)	I/O Bank	BRK7010
MC2	20	P2	IO_L22P_T3_35	B35_L22P	40.085	35	J3-20
MC2	21	N3	IO_L19N_T3_VREF_35	B35_L19N	32.209	35	J3-21
MC2	22	N2	IO_L22N_T3_35	B35_L22N	39.457	35	J3-22
MC2	23	L5	IO_L18P_T2_35	B35_L18P	28.038	35	J3-23
MC2	24	R1	IO_L20P_T3_35	B35_L20P	41.140	35	J3-24
MC2	25	L4	IO_L18N_T2_35	B35_L18N	28.650	35	J3-25
MC2	26	P1	IO_L20N_T3_35	B35_L20N	39.947	35	J3-26
MC2	27	M6	IO_L23P_T3_35	B35_L23P	27.602	35	J3-27
MC2	28	M3	IO_L16P_T2_35	B35_L16P	35.547	35	J3-28
MC2	29	M5	IO_L23N_T3_35	B35_L23N	28.186	35	J3-29
MC2	30	M2	IO_L16N_T2_35	B35_L16N	36.242	35	J3-30
MC2	31	M1	IO_L15P_T2_DQS_35	B35_L15P	31.483	35	J3-31
MC2	32	K6	IO_L17P_T2_35	B35_L17P	28.973	35	J3-32
MC2	33	L1	IO_L15N_T2_DQS_35	B35_L15N	30.114	35	J3-33
MC2	34	J6	IO_L17N_T2_35	B35_L17N	26.876	35	J3-34
MC2	35		VCCO_35	VCCO_MC2			J3-35
MC2	36			DGND			J3-36
MC2	37	K2	IO_L9P_T1_DQS_AD7P_35	B35_L9P	26.233	35	J3-37
MC2	38	L3	IO_L14P_T2_SRCC_35	B35_L14P	31.306	35	J3-38
MC2	39	J2	IO_L9N_T1_DQS_AD7N_35	B35_L9N	25.579	35	J3-39
MC2	40	K3	IO_L14N_T2_SRCC_35	B35_L14N	30.796	35	J3-40
MC2	41	K1	IO_L7P_T1_AD6P_35	B35_L7P	24.103	35	J4-1
MC2	42	J5	IO_L10P_T1_AD15P_35	B35_L10P	25.935	35	J4-2
MC2	43	J1	IO_L7N_T1_AD6N_35	B35_L7N	23.547	35	J4-3
MC2	44	H5	IO_L10N_T1_AD15N_35	B35_L10N	25.634	35	J4-4
MC2	45	H3	IO_L11P_T1_SRCC_35	B35_L11P	20.106	35	J4-5
MC2	46	H2	IO_L8P_T1_AD14P_35	B35_L8P	26.105	35	J4-6
MC2	47	G3	IO_L11N_T1_SRCC_35	B35_L11N	19.518	35	J4-7
MC2	48	G2	IO_L8N_T1_AD14N_35	B35_L8N	24.796	35	J4-8
MC2	49	E2	IO_L4P_T0_35	B35_L4P	16.329	35	J4-9
MC2	50	G1	IO_L5P_T0_AD13P_35	B35_L5P	24.944	35	J4-10
MC2	51	D2	IO_L4N_T0_35	B35_L4N	15.914	35	J4-11
MC2	52	F1	IO_L5N_T0_AD13N_35	B35_L5N	25.056	35	J4-12
MC2	53	F3	IO_L6P_T0_35	B35_L6P	15.579	35	J4-13

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MC2	54	E1	IO_L3P_T0_DQS_AD5P_35	B35_L3P	22.263	35	J4-14
MC2	55		VCCO_35	VCCO_MC2			J4-15
MC2	56			DGND			J4-16
MC2	57	E3	IO_L6N_T0_VREF_35	B35_L6N	15.027	35	J4-17
MC2	58	D1	IO_L3N_T0_DQS_AD5N_35	B35_L3N	21.386	35	J4-18
MC2	59	B1	IO_L1P_T0_AD4P_35	B35_L1P	12.002	35	J4-19
MC2	60	C2	IO_L2P_T0_AD12P_35	B35_L2P	17.193	35	J4-20
MC2	61	A1	IO_L1N_T0_AD4N_35	B35_L1N	9.240	35	J4-21
MC2	62	B2	IO_L2N_T0_AD12N_35	B35_L2N	15.957	35	J4-22
MC2	63	K4	IO_L13P_T2_MRCC_35	B35_L13P	21.257	35	J4-23
MC2	64	U15	IO_L14P_T2_SRCC_13	B13_L14P	47.649	13	J4-24
MC2	65	J4	IO_L13N_T2_MRCC_35	B35_L13N	19.769	35	J4-25
MC2	66	V15	IO_L14N_T2_SRCC_13	B13_L14N	48.907	13	J4-26
MC2	67	T16	IO_L17P_T2_13	B13_L17P	40.409	13	J4-27
MC2	68	T14	IO_L15P_T2_DQS_13	B13_L15P	51.892	13	J4-28
MC2	69	U16	IO_L17N_T2_13	B13_L17N	41.542	13	J4-29
MC2	70	T15	IO_L15N_T2_DQS_13	B13_L15N	53.553	13	J4-30
MC2	71	V13	IO_L13P_T2_MRCC_13	B13_L13P	43.141	13	J4-31
MC2	72	W14	IO_L6P_T0_13	B13_L6P	57.137	13	J4-32
MC2	73	V14	IO_L13N_T2_MRCC_13	B13_L13N	44.768	13	J4-33
MC2	74	Y14	IO_L6N_T0_VREF_13	B13_L6N	54.597	13	J4-34
MC2	75	Y11	IO_L11P_T1_SRCC_13	B13_L11P	42.257	13	J4-35
MC2	76	Y12	IO_L11N_T1_SRCC_13	B13_L11N	49.008	13	J4-36
MC2	77	H4	IO_L12P_T1_MRCC_35	B35_L12P_MRCC	23.348	35	J4-37
MC2	78			DGND			J4-38
MC2	79	G4	IO_L12N_T1_MRCC_35	B35_L12N_MRCC	23.646	35	J4-39
MC2	80			DGND			J4-40