

# Pin List: XEM8310

2022-07-06

Connector	Pin	FPGA Pin	Description	Rev AXX PCB Length (mm)	BRK8310
MC1	1				MC4-1
MC1	2				MC7-1
MC1	3		GND		
MC1	4	W18	VREF1		MC4-2
MC1	5	AD24	B64_L5P	32.243	MC4-40
MC1	6	AC26	B64_L4P	24.819	MC4-39
MC1	7	AD25	B64_L5N	31.887	MC4-38
MC1	8	AD26	B64_L4N	24.807	MC4-37
MC1	9	AB24	B64_L6P	31.357	MC4-36
MC1	10	AE25	B64_L1P	21.835	MC4-35
MC1	11	AC24	B64_L6N	30.716	MC4-34
MC1	12	AE26	B64_L1N	21.763	MC4-33
MC1	13	AF24	B64_L3P	28.265	MC4-32
MC1	14	AB25	B64_L2P	30.85	MC4-31
MC1	15	AF25	B64_L3N	28.331	MC4-30
MC1	16	AB26	B64_L2N	29.952	MC4-29
MC1	17	Y20	B64_L19P	33.294	MC4-28
MC1	18	AD23	B64_L8P	19.622	MC4-27
MC1	19	Y21	B64_L19N	33.116	MC4-26
MC1	20	AE23	B64_L8N	18.956	MC4-25
MC1	21	AE22	B64_L7P	28.583	MC4-24
MC1	22	AC22	B64_L9P	25.719	MC4-23
MC1	23	AF22	B64_L7N	28.681	MC4-22
MC1	24	AC23	B64_L9N	25.205	MC4-21
MC1	25	AD20	B64_L13P_GC	27.233	MC4-20
MC1	26	AA22	B64_L10P	24.061	MC4-19
MC1	27	AE20	B64_L13N_GC	27.33	MC4-18
MC1	28	AB22	B64_L10N	23.884	MC4-17
MC1	29		GND		
MC1	30		GND		
MC1	31	AF20	B64_T1U_N12	22.935	MC4-16

Connector	Pin	FPGA Pin	Description	Rev AXX PCB Length (mm)	BRK8310
MC1	32	AF23	B64_T0U_N12	14.129	MC4-15
MC1	33	AF18	B64_L15P	31.686	MC4-14
MC1	34	AA20	B64_L21P	25.597	MC4-13
MC1	35	AF19	B64_L15N	31.778	MC4-12
MC1	36	AB20	B64_L21N	25.344	MC4-11
MC1	37	AD21	B64_L11P_GC	26.865	MC4-10
MC1	38	AA19	B64_L20P	23.307	MC4-9
MC1	39	AE21	B64_L11N_GC	26.892	MC4-8
MC1	40	AB19	B64_L20N	22.489	MC4-7
MC1	41	AB21	B64_L12P_GC	33.557	MC4-6
MC1	42	AE17	B64_L17P	21.857	MC4-5
MC1	43	AC21	B64_L12N_GC	33.241	MC4-4
MC1	44	AF17	B64_L17N	21.341	MC4-3
MC1	45	AC19	B64_L14P_GC	31.275	MC5-40
MC1	46	Y18	B64_L24P	29.028	MC5-39
MC1	47	AD19	B64_L14N_GC	31.122	MC5-38
MC1	48	AA18	B64_L24N	30.442	MC5-37
MC1	49	AC18	B64_L16P	34.602	MC5-36
MC1	50	AB17	B64_L22P	26.255	MC5-35
MC1	51	AD18	B64_L16N	34.5	MC5-34
MC1	52	AC17	B64_L22N	26.1	MC5-33
MC1	53	Y17	B64_L23P	34.568	MC5-32
MC1	54	AD16	B64_L18P	23.52	MC5-31
MC1	55	AA17	B64_L23N	35.206	MC5-30
MC1	56	AE16	B64_L18N	22.806	MC5-29
MC1	57	AE18	B64_T2U_N12	31.789	MC5-28
MC1	58	AC16	B64_T3U_N12	30.985	MC5-27
MC1	59		GND		
MC1	60		GND		
MC1	61	AD13	B84_L4P	38.255	MC5-26
MC1	62	AF14	B84_L1P	24.624	MC5-25
MC1	63	AD14	B84_L4N	38.367	MC5-24
MC1	64	AF15	B84_L1N	24.83	MC5-23
MC1	65	AB15	B84_L6P_HDGC	36.583	MC5-22

Connector	Pin	FPGA Pin	Description	Rev AXX PCB Length (mm)	BRK8310
MC1	66	W16	B84_L9P	33.911	MC5-21
MC1	67	AB16	B84_L6N_HDGC	36.456	MC5-20
MC1	68	Y16	B84_L9N	33.595	MC5-19
MC1	69	AE13	B84_L2P	35.196	MC5-18
MC1	70	AD15	B84_L3P	29.745	MC5-17
MC1	71	AF13	B84_L2N	34.885	MC5-16
MC1	72	AE15	B84_L3N	29.371	MC5-15
MC1	73	AA14	B84_L8P_HDGC	35.772	MC5-14
MC1	74	AC13	B84_L5P_HDGC	29.388	MC5-13
MC1	75	AB14	B84_L8N_HDGC	35.74	MC5-12
MC1	76	AC14	B84_L5N_HDGC	29.45	MC5-11
MC1	77		GND		
MC1	78		GND		
MC1	79	Y9	VBATT		MC5-2
MC1	80				MC5-1
MC2	1				
MC2	2				
MC2	3				
MC2	4				
MC2	5		GND		
MC2	6		GND		
MC2	7		GND		
MC2	8		GND		
MC2	9	J15	B87_L4P	31.722	MC6-40
MC2	10	J13	B87_L2P	39.793	MC6-39
MC2	11	J14	B87_L4N	31.581	MC6-38
MC2	12	H13	B87_L2N	39.806	MC6-37
MC2	13	B14	B87_L12P	21.866	MC6-36
MC2	14	H14	B87_L3P	35.641	MC6-35
MC2	15	A14	B87_L12N	21.346	MC6-34
MC2	16	G14	B87_L3N	35.325	MC6-33
MC2	17	F14	B87_L6P_HDGC	29.025	MC6-32
MC2	18	C14	B87_L9P	32.448	MC6-31
MC2	19	F13	B87_L6N_HDGC	29.025	MC6-30

Connector	Pin	FPGA Pin	Description	Rev AXX PCB Length (mm)	BRK8310
MC2	20	C13	B87_L9N	31.643	MC6-29
MC2	21	C12	B87_L10P	23.363	MC6-28
MC2	22	D14	B87_L8P_HDGC	30.744	MC6-27
MC2	23	B12	B87_L10N	22.698	MC6-26
MC2	24	D13	B87_L8N_HDGC	30.914	MC6-25
MC2	25	E13	B87_L7P_HDGC	26.845	MC6-24
MC2	26	A13	B87_L11P	29.229	MC6-23
MC2	27	E12	B87_L7N_HDGC	26.845	MC6-22
MC2	28	A12	B87_L11N	28.578	MC6-21
MC2	29	G12	B87_L5P_HDGC	25.359	MC6-20
MC2	30	J12	B87_L1P	37.772	MC6-19
MC2	31	F12	B87_L5N_HDGC	25.194	MC6-18
MC2	32	H12	B87_L1N	37.738	MC6-17
MC2	33		GND		
MC2	34		GND		
MC2	35	C11	B86_L12P	21.184	MC6-16
MC2	36	B10	B86_L11P	29.678	MC6-15
MC2	37	B11	B86_L12N	20.748	MC6-14
MC2	38	A10	B86_L11N	29.442	MC6-13
MC2	39	D11	B86_L8P_HDGC	22.919	MC6-12
MC2	40	E11	B86_L7P_HDGC	29.013	MC6-11
MC2	41	D10	B86_L8N_HDGC	22.831	MC6-10
MC2	42	E10	B86_L7N_HDGC	28.846	MC6-9
MC2	43	H11	B86_L4P	29.868	MC6-8
MC2	44	B9	B86_L10P	26.98	MC6-7
MC2	45	G11	B86_L4N	29.549	MC6-6
MC2	46	A9	B86_L10N	26.453	MC6-5
MC2	47	J9	B86_L3P	25.504	MC6-4
MC2	48	J11	B86_L2P	36.099	MC6-3
MC2	49	H9	B86_L3N	25.206	MC6-2
MC2	50	J10	B86_L2N	35.365	MC6-1
MC2	51	D9	B86_L9P	26.017	MC7-12
MC2	52	F10	B86_L6P_HDGC	33.605	MC7-11
MC2	53	C9	B86_L9N	25.537	MC7-10

Connector	Pin	FPGA Pin	Description	Rev AXX PCB Length (mm)	BRK8310
MC2	54	F9	B86_L6N_HDGC	33.384	MC7-9
MC2	55	K10	B86_L1P	28.78	MC7-8
MC2	56	G10	B86_L5P_HDGC	33.842	MC7-7
MC2	57	K9	B86_L1N	27.708	MC7-6
MC2	58	G9	B86_L5N_HDGC	33.872	MC7-5
MC2	59	W14	B84_L10P	44.497	MC5-9
MC2	60	Y15	B84_L7P_HDGC	53.952	MC5-10
MC2	61	W15	B84_L10N	44.705	MC5-7
MC2	62	AA15	B84_L7N_HDGC	53.776	MC5-8
MC2	63	W12	B84_L12P	41.812	MC5-5
MC2	64	Y13	B84_L11P	52.955	MC5-6
MC2	65	W13	B84_L12N	41.289	MC5-3
MC2	66	AA13	B84_L11N	52.963	MC5-4
MC2	67		GND		
MC2	68		GND		
MC2	69				MC7-3
MC2	70				MC7-2
MC2	71	Y10	FPGA_JTAG_TDO		J3-8
MC2	72	AB10	FPGA_JTAG_TMS		J3-4
MC2	73		GND		
MC2	74	AB12	FPGA_JTAG_TDI		J3-10
MC2	75	N14	VCCADC		J2-2
MC2	76	AE12	FPGA_JTAG_TCK		J3-6
MC2	77	N13	GNDADC		J2-7
MC2	78	P14	XADC_VP		J2-1
MC2	79	R14	VREFP		J2-8
MC2	80	R13	XADC_VN		J2-3
MC3	1	AF2	MGT_RXP0_224	19.078	J6-B45
MC3	2	AF7	MGT_TXP0_224	18.16	J6-A47
MC3	3	AF1	MGT_RXN0_224	18.896	J6-B46
MC3	4	AF6	MGT_TXN0_224	18.171	J6-A48
MC3	5	AE4	MGT_RXP1_224	22.949	J6-B41
MC3	6	AE9	MGT_TXP1_224	20.121	J6-A43
MC3	7	AE3	MGT_RXN1_224	22.965	J6-B42

Connector	Pin	FPGA Pin	Description	Rev AXX PCB Length (mm)	BRK8310
MC3	8	AE8	MGT_TXN1_224	20.081	J6-A44
MC3	9	AD2	MGT_RXP2_224	18.336	J6-B37
MC3	10	AD7	MGT_TXP2_224	17.772	J6-A39
MC3	11	AD1	MGT_RXN2_224	18.296	J6-B38
MC3	12	AD6	MGT_TXN2_224	17.826	J6-A40
MC3	13	AB2	MGT_RXP3_224	21.69	J6-B33
MC3	14	AC5	MGT_TXP3_224	15.548	J6-A35
MC3	15	AB1	MGT_RXN3_224	21.666	J6-B34
MC3	16	AC4	MGT_TXN3_224	15.531	J6-A36
MC3	17	T7	MGT_REFCLK1P_225	27.393	J6-A13
MC3	18	AB7	MGT_REFCLK0P_224	16.453	J1-A01
MC3	19	T6	MGT_REFCLK1N_225	27.261	J6-A14
MC3	20	AB6	MGT_REFCLK0N_224	16.46	J1-A02
MC3	21	Y2	MGT_RXP0_225	20.535	J6-B27
MC3	22	AA5	MGT_TXP0_225	14.909	J6-A29
MC3	23	Y1	MGT_RXN0_225	20.507	J6-B28
MC3	24	AA4	MGT_TXN0_225	14.937	J6-A30
MC3	25	V2	MGT_RXP1_225	19.096	J6-B23
MC3	26	W5	MGT_TXP1_225	15.822	J6-A25
MC3	27	V1	MGT_RXN1_225	19.083	J6-B24
MC3	28	W4	MGT_TXN1_225	15.802	J6-A26
MC3	29	T2	MGT_RXP2_225	21.71	J6-B19
MC3	30	U5	MGT_TXP2_225	16.077	J6-A21
MC3	31	T1	MGT_RXN2_225	21.694	J6-B20
MC3	32	U4	MGT_TXN2_225	16.082	J6-A22
MC3	33	P2	MGT_RXP3_225	20.189	J6-B14
MC3	34	R5	MGT_TXP3_225	16.89	J6-A16
MC3	35	P1	MGT_RXN3_225	20.187	J6-B15
MC3	36	R4	MGT_TXN3_225	16.907	J6-A17
MC3	37	E21	B67_L20P	46.337	MC7-40
MC3	38	P7	MGT_REFCLK0P_226	19.426	J1-B01
MC3	39	D21	B67_L20N	46.373	MC7-38
MC3	40	P6	MGT_REFCLK0N_226	19.234	J1-B02
MC3	41	M2	MGT_RXP0_226	19.399	J1-B05

Connector	Pin	FPGA Pin	Description	Rev AXX PCB Length (mm)	BRK8310
MC3	42	N5	MGT_TXP0_226	16.535	J1-A05
MC3	43	M1	MGT_RXN0_226	19.351	J1-B06
MC3	44	N4	MGT_TXN0_226	16.566	J1-A06
MC3	45	K2	MGT_RXP1_226	21.049	J1-B07
MC3	46	L5	MGT_TXP1_226	15.942	J1-A07
MC3	47	K1	MGT_RXN1_226	21	J1-B08
MC3	48	L4	MGT_TXN1_226	15.957	J1-A08
MC3	49	H2	MGT_RXP2_226	18.142	J1-B09
MC3	50	J5	MGT_TXP2_226	15.705	J1-A09
MC3	51	H1	MGT_RXN2_226	18.102	J1-B10
MC3	52	J4	MGT_TXN2_226	15.711	J1-A10
MC3	53	F2	MGT_RXP3_226	20.342	J1-B11
MC3	54	G5	MGT_TXP3_226	15.504	J1-A11
MC3	55	F1	MGT_RXN3_226	20.303	J1-B12
MC3	56	G4	MGT_TXN3_226	15.513	J1-A12
MC3	57	C17	B67_L15P	34.987	MC7-36
MC3	58	B19	B67_L14P_GC	30.65	MC7-39
MC3	59	B17	B67_L15N	34.803	MC7-34
MC3	60	B20	B67_L14N_GC	30.604	MC7-37
MC3	61	C21	B67_L22P	47.523	MC7-32
MC3	62	B15	B67_L17P	27.622	MC7-35
MC3	63	B21	B67_L22N	47.575	MC7-30
MC3	64	A15	B67_L17N	27.435	MC7-33
MC3	65	A19	B67_L18P	36.379	MC7-28
MC3	66	A17	B67_L16P	28.48	MC7-31
MC3	67	A20	B67_L18N	36.694	MC7-26
MC3	68	A18	B67_L16N	28.349	MC7-29
MC3	69	C18	B67_L13P_GC	47.467	MC7-24
MC3	70	C22	B67_L24P	39.38	MC7-27
MC3	71	C19	B67_L13N_GC	47.487	MC7-22
MC3	72	B22	B67_L24N	39.023	MC7-25
MC3	73	C23	B67_L21P	46.339	MC7-20
MC3	74	A22	B67_L19P	39.214	MC7-23
MC3	75	B24	B67_L21N	46.239	MC7-18

Connector	Pin	FPGA Pin	Description	Rev AXX PCB Length (mm)	BRK8310
MC3	76	A23	B67_L19N	39.124	MC7-21
MC3	77	A24	B67_L23P	48.118	MC7-16
MC3	78	E22	B67_T3U_N12	43.905	MC7-19
MC3	79	A25	B67_L23N	48.227	MC7-14
MC3	80				MC7-4