

# Pin List: XEM7010

2020-09-29

Connector	Pin	FPGA Pin	Description	Length (mm)	BRK7010
MC1	1		+VDC		J1-1
MC1	2		DGND		J1-2
MC1	3		+VDC		J1-3
MC1	4		+1.0VDD		J1-4
MC1	5		+VDC		J1-5
MC1	6		+1.0VDD		J1-6
MC1	7		+1.8VDD		J1-7
MC1	8	B20	SYS_CLK_MC1	48.125	J1-8
MC1	9		+3.3VDD		J1-9
MC1	10	M9	XADC_VN		J1-10
MC1	11		+3.3VDD		J1-11
MC1	12	L10	XADC_VP		J1-12
MC1	13		+3.3VDD		J1-13
MC1	14		DGND		J1-14
MC1	15	P5	B35_L21P	24.307	J1-15
MC1	16	R1	B35_L20P	14.142	J1-16
MC1	17	P4	B35_L21N	23.098	J1-17
MC1	18	P1	B35_L20N	14.559	J1-18
MC1	19	P6	B35_L24P	24.406	J1-19
MC1	20	P2	B35_L22P	14.239	J1-20
MC1	21	N5	B35_L24N	23.362	J1-21
MC1	22	N2	B35_L22N	15.045	J1-22
MC1	23	N4	B35_L19P	22.611	J1-23
MC1	24	M3	B35_L16P	15.842	J1-24
MC1	25	N3	B35_L19N	21.036	J1-25
MC1	26	M2	B35_L16N	14.378	J1-26
MC1	27	M1	B35_L15P	16.752	J1-27
MC1	28	M6	B35_L23P	18.269	J1-28
MC1	29	L1	B35_L15N	17.916	J1-29
MC1	30	M5	B35_L23N	17.034	J1-30
MC1	31	L3	B35_L14P	20.446	J1-31

Connector	Pin	FPGA Pin	Description	Length (mm)	BRK7010
MC1	32	L5	B35_L18P	16.943	J1-32
MC1	33	K3	B35_L14N	20.180	J1-33
MC1	34	L4	B35_L18N	15.742	J1-34
MC1	35		DGND		J1-35
MC1	36		VCCO_MC1		J1-36
MC1	37	K1	B35_L7P	16.338	J1-37
MC1	38	K2	B35_L9P	13.039	J1-38
MC1	39	J1	B35_L7N	16.780	J1-39
MC1	40	J2	B35_L9N	13.509	J1-40
MC1	41	H2	B35_L8P	18.024	J2-1
MC1	42	K6	B35_L17P	15.409	J2-2
MC1	43	G2	B35_L8N	18.525	J2-3
MC1	44	J6	B35_L17N	15.355	J2-4
MC1	45	H3	B35_L11P	18.459	J2-5
MC1	46	J5	B35_L10P	15.938	J2-6
MC1	47	G3	B35_L11N	18.414	J2-7
MC1	48	H5	B35_L10N	14.906	J2-8
MC1	49	E2	B35_L4P	17.421	J2-9
MC1	50	G1	B35_L5P	10.487	J2-10
MC1	51	D2	B35_L4N	17.989	J2-11
MC1	52	F1	B35_L5N	10.709	J2-12
MC1	53	E1	B35_L3P	15.758	J2-13
MC1	54	F3	B35_L6P	11.904	J2-14
MC1	55		DGND		J2-15
MC1	56		VCCO_MC1		J2-16
MC1	57	D1	B35_L3N	15.605	J2-17
MC1	58	E3	B35_L6N	11.439	J2-18
MC1	59	B1	B35_L1P	16.244	J2-19
MC1	60	C2	B35_L2P	11.909	J2-20
MC1	61	A1	B35_L1N	16.248	J2-21
MC1	62	B2	B35_L2N	11.892	J2-22
MC1	63	E13	B16_L4P	29.298	J2-23
MC1	64	F13	B16_L1P	22.898	J2-24
MC1	65	E14	B16_L4N	30.472	J2-25

Connector	Pin	FPGA Pin	Description	Length (mm)	BRK7010
MC1	66	F14	B16_L1N	23.925	J2-26
MC1	67	C14	B16_L3P	29.485	J2-27
MC1	68	D14	B16_L6P	23.235	J2-28
MC1	69	C15	B16_L3N	30.543	J2-29
MC1	70	D15	B16_L6N	24.212	J2-30
MC1	71	B15	B16_L7P	30.140	J2-31
MC1	72	F16	B16_L2P	26.177	J2-32
MC1	73	B16	B16_L7N	31.240	J2-33
MC1	74	E17	B16_L2N	27.462	J2-34
MC1	75	E16	B16_L5P	32.146	J2-35
MC1	76	D16	B16_L5N	26.331	J2-36
MC1	77	H4	B35_L12P_MRCC	25.470	J2-37
MC1	78		DGND		J2-38
MC1	79	G4	B35_L12N_MRCC	25.477	J2-39
MC1	80		DGND		J2-40
MC2	1		DGND		J3-1
MC2	2		+3.3VDD		J3-2
MC2	3		VCCBATT		J3-3
MC2	4		+3.3VDD		J3-4
MC2	5	V12	FPGA_TCK		J6-6
MC2	6		+3.3VDD		J3-6
MC2	7	T13	FPGA_TMS		J6-4
MC2	8	U13	FPGA_TDO		J6-8
MC2	9	R13	FPGA_TDI		J6-10
MC2	10	J16	B15_IO0	35.914	J3-10
MC2	11	A20	SYS_CLK_MC2	36.123	J3-11
MC2	12	M17	B15_IO25	26.694	J3-12
MC2	13		DGND		J3-13
MC2	14		DGND		J3-14
MC2	15	N18	B15_L17P	19.524	J3-15
MC2	16	N20	B15_L18P	23.282	J3-16
MC2	17	N19	B15_L17N	18.290	J3-17
MC2	18	M20	B15_L18N	23.125	J3-18
MC2	19	M15	B15_L24P	22.843	J3-19

Connector	Pin	FPGA Pin	Description	Length (mm)	BRK7010
MC2	20	M13	B15_L20P	29.797	J3-20
MC2	21	M16	B15_L24N	22.139	J3-21
MC2	22	L13	B15_L20N	31.393	J3-22
MC2	23	N22	B15_L15P	13.365	J3-23
MC2	24	M18	B15_L16P	23.506	J3-24
MC2	25	M22	B15_L15N	13.559	J3-25
MC2	26	L18	B15_L16N	24.311	J3-26
MC2	27	M21	B15_L10P	14.131	J3-27
MC2	28	L14	B15_L22P	26.961	J3-28
MC2	29	L21	B15_L10N	14.741	J3-29
MC2	30	L15	B15_L22N	25.847	J3-30
MC2	31	L19	B15_L14P	17.849	J3-31
MC2	32	K21	B15_L9P	19.341	J3-32
MC2	33	L20	B15_L14N	16.280	J3-33
MC2	34	K22	B15_L9N	18.139	J3-34
MC2	35		VCCO_MC2		J3-35
MC2	36		DGND		J3-36
MC2	37	L16	B15_L23P	18.099	J3-37
MC2	38	K18	B15_L13P	21.659	J3-38
MC2	39	K16	B15_L23N	17.957	J3-39
MC2	40	K19	B15_L13N	20.482	J3-40
MC2	41	K13	B15_L19P	19.850	J4-1
MC2	42	J20	B15_L11P	18.845	J4-2
MC2	43	K14	B15_L19N	18.658	J4-3
MC2	44	J21	B15_L11N	17.653	J4-4
MC2	45	K17	B15_L21P	15.189	J4-5
MC2	46	J15	B15_L5P	23.279	J4-6
MC2	47	J17	B15_L21N	15.019	J4-7
MC2	48	H15	B15_L5N	23.163	J4-8
MC2	49	H17	B15_L6P	14.638	J4-9
MC2	50	J14	B15_L3P	23.267	J4-10
MC2	51	H18	B15_L6N	14.271	J4-11
MC2	52	H14	B15_L3N	23.206	J4-12
MC2	53	J22	B15_L7P	8.561	J4-13

Connector	Pin	FPGA Pin	Description	Length (mm)	BRK7010
MC2	54	H20	B15_L8P	18.002	J4-14
MC2	55		VCCO_MC2		J4-15
MC2	56		DGND		J4-16
MC2	57	H22	B15_L7N	9.085	J4-17
MC2	58	G20	B15_L8N	18.367	J4-18
MC2	59	H13	B15_L1P	19.082	J4-19
MC2	60	G17	B15_L4P	20.477	J4-20
MC2	61	G13	B15_L1N	18.085	J4-21
MC2	62	G18	B15_L4N	19.113	J4-22
MC2	63	G21	B16_L24P	10.585	J4-23
MC2	64	G15	B15_L2P	23.400	J4-24
MC2	65	G22	B16_L24N	9.436	J4-25
MC2	66	G16	B15_L2N	21.166	J4-26
MC2	67	E22	B16_L22P	9.107	J4-27
MC2	68	E21	B16_L23P	15.837	J4-28
MC2	69	D22	B16_L22N	8.856	J4-29
MC2	70	D21	B16_L23N	15.901	J4-30
MC2	71	D20	B16_L19P	11.292	J4-31
MC2	72	C22	B16_L20P	15.072	J4-32
MC2	73	C20	B16_L19N	11.427	J4-33
MC2	74	B22	B16_L20N	14.729	J4-34
MC2	75	B21	B16_L21P	10.022	J4-35
MC2	76	A21	B16_L21N	15.970	J4-36
MC2	77	J19	B15_L12P_MRCC	19.628	J4-37
MC2	78		DGND		J4-38
MC2	79	H19	B15_L12N_MRCC	19.662	J4-39
MC2	80		DGND		J4-40