

# Pin List: XEM8305

2024-09-08

Connector	Pin	FPGA Pin	Pin Attributes	Description	PCB Length (mm)	I/O Bank	BRK8305 Net	BRK8305 Pin
MC1	1		VCCO_84	VCCO_84		84	VCCO_84	
MC1	2		VCCO_64	VCCO_64		64	VCCO_64	
MC1	3		VCCO_84	VCCO_84		84	VCCO_84	
MC1	4		VCCO_64	VCCO_64		64	VCCO_64	
MC1	5		GND	DGND			DGND	
MC1	6		GND	DGND			DGND	
MC1	7		GND	DGND			DGND	
MC1	8		GND	DGND			DGND	
MC1	9	Y15	IO_L7P_HDGC_AD5P_84	B84_L7P_HDGC	32.88	84	B84_L7P_HDGC	MC4-36
MC1	10	AF14	IO_L1P_AD11P_84	B84_L1P	24.7	84	B84_L1P	MC4-35
MC1	11	AA15	IO_L7N_HDGC_AD5N_84	B84_L7N_HDGC	32.87	84	B84_L7N_HDGC	MC4-34
MC1	12	AF15	IO_L1N_AD11N_84	B84_L1N	24.48	84	B84_L1N	MC4-33
MC1	13	AA14	IO_L8P_HDGC_AD4P_84	B84_L8P_HDGC	26.97	84	B84_L8P_HDGC	MC4-32
MC1	14	AE13	IO_L2P_AD10P_84	B84_L2P	22.72	84	B84_L2P	MC4-31
MC1	15	AB14	IO_L8N_HDGC_AD4N_84	B84_L8N_HDGC	27.09	84	B84_L8N_HDGC	MC4-30
MC1	16	AF13	IO_L2N_AD10N_84	B84_L2N	21.98	84	B84_L2N	MC4-29
MC1	17	W16	IO_L9P_AD3P_84	B84_L9P	26.76	84	B84_L9P	MC4-28
MC1	18	AD15	IO_L3P_AD9P_84	B84_L3P	26.34	84	B84_L3P	MC4-27
MC1	19	Y16	IO_L9N_AD3N_84	B84_L9N	25.82	84	B84_L9N	MC4-26
MC1	20	AE15	IO_L3N_AD9N_84	B84_L3N	25.05	84	B84_L3N	MC4-25
MC1	21	W14	IO_L10P_AD2P_84	B84_L10P	26.16	84	B84_L10P	MC4-24
MC1	22	AD13	IO_L4P_AD8P_84	B84_L4P	23.13	84	B84_L4P	MC4-23
MC1	23	W15	IO_L10N_AD2N_84	B84_L10N	24.78	84	B84_L10N	MC4-22
MC1	24	AD14	IO_L4N_AD8N_84	B84_L4N	23.04	84	B84_L4N	MC4-21
MC1	25	Y13	IO_L11P_AD1P_84	B84_L11P	26.31	84	B84_L11P	MC4-20
MC1	26	AC13	IO_L5P_HDGC_AD7P_84	B84_L5P_HDGC	28.72	84	B84_L5P_HDGC	MC4-19
MC1	27	AA13	IO_L11N_AD1N_84	B84_L11N	25.43	84	B84_L11N	MC4-18
MC1	28	AC14	IO_L5N_HDGC_AD7N_84	B84_L5N_HDGC	28.66	84	B84_L5N_HDGC	MC4-17
MC1	29	W12	IO_L12P_AD0P_84	B84_L12P	30.18	84	B84_L12P	MC4-16
MC1	30	AB15	IO_L6P_HDGC_AD6P_84	B84_L6P_HDGC	25.26	84	B84_L6P_HDGC	MC4-15

Connect or	Pin	FPGA Pin	Pin Attributes	Description	PCB Length (mm)	I/O Bank	BRK8305 Net	BRK8305 Pin
MC1	31	W13	IO_L12N_AD0N_84	B84_L12N	30.09	84	B84_L12N	MC4-14
MC1	32	AB16	IO_L6N_HDGC_AD6N_84	B84_L6N_HDGC	25.18	84	B84_L6N_HDGC	MC4-13
MC1	33		GND	DGND			DGND	
MC1	34		GND	DGND			DGND	
MC1	35	Y18	IO_L24P_T3U_N10_64	B64_L24P	24.33	64	B64_L24P	MC4-12
MC1	36	AD16	IO_L18P_T2U_N10_AD2P_64	B64_L18P	24.95	64	B64_L18P	MC4-11
MC1	37	AA18	IO_L24N_T3U_N11_64	B64_L24N	24.02	64	B64_L24N	MC4-10
MC1	38	AE16	IO_L18N_T2U_N11_AD2N_64	B64_L18N	24.7	64	B64_L18N	MC4-9
MC1	39	Y17	IO_L23P_T3U_N8_64	B64_L23P	22.7	64	B64_L23P	MC4-8
MC1	40	AE17	IO_L17P_T2U_N8_AD10P_64	B64_L17P	20.57	64	B64_L17P	MC4-7
MC1	41	AA17	IO_L23N_T3U_N9_64	B64_L23N	22.61	64	B64_L23N	MC4-6
MC1	42	AF17	IO_L17N_T2U_N9_AD10N_64	B64_L17N	20.49	64	B64_L17N	MC4-5
MC1	43	AB17	IO_L22P_T3U_N6_DBC_AD0P_64	B64_L22P	24.46	64	B64_L22P	MC4-4
MC1	44	AC18	IO_L16P_T2U_N6_QBC_AD3P_64	B64_L16P	25.09	64	B64_L16P	MC4-3
MC1	45	AC17	IO_L22N_T3U_N7_DBC_AD0N_64	B64_L22N	24.49	64	B64_L22N	MC4-2
MC1	46	AD18	IO_L16N_T2U_N7_QBC_AD3N_64	B64_L16N	25.18	64	B64_L16N	MC4-1
MC1	47	AA20	IO_L21P_T3L_N4_AD8P_64	B64_L21P	21.42	64	B64_L21P	MC5-40
MC1	48	AF18	IO_L15P_T2L_N4_AD11P_64	B64_L15P	19.98	64	B64_L15P	MC5-39
MC1	49	AB20	IO_L21N_T3L_N5_AD8N_64	B64_L21N	21.08	64	B64_L21N	MC5-38
MC1	50	AF19	IO_L15N_T2L_N5_AD11N_64	B64_L15N	20.11	64	B64_L15N	MC5-37
MC1	51	AA19	IO_L20P_T3L_N2_AD1P_64	B64_L20P	21.96	64	B64_L20P	MC5-36
MC1	52	AC19	IO_L14P_T2L_N2_GC_64	B64_L14P_GC	25.73	64	B64_L14P_GC	MC5-35
MC1	53	AB19	IO_L20N_T3L_N3_AD1N_64	B64_L20N	22.08	64	B64_L20N	MC5-34
MC1	54	AD19	IO_L14N_T2L_N3_GC_64	B64_L14N_GC	25.55	64	B64_L14N_GC	MC5-33
MC1	55	Y20	IO_L19P_T3L_N0_DBC_AD9P_64	B64_L19P	22.44	64	B64_L19P	MC5-32
MC1	56	AD20	IO_L13P_T2L_N0_GC_QBC_64	B64_L13P_GC	22.73	64	B64_L13P_GC	MC5-31
MC1	57	Y21	IO_L19N_T3L_N1_DBC_AD9N_64	B64_L19N	22.61	64	B64_L19N	MC5-30
MC1	58	AE20	IO_L13N_T2L_N1_GC_QBC_64	B64_L13N_GC	22.67	64	B64_L13N_GC	MC5-29
MC1	59	AC16	IO_T3U_N12_64	B64_T3U_N12	21.46	64	B64_T3U_N12	MC5-28
MC1	60	AE18	IO_T2U_N12_64	B64_T2U_N12	24.78	64	B64_T2U_N12	MC5-27
MC1	61		GND	DGND			DGND	
MC1	62		GND	DGND			DGND	
MC1	63	AB21	IO_L12P_T1U_N10_GC_64	B64_L12P_GC	22.01	64	B64_L12P_GC	MC5-26

Connector	Pin	FPGA Pin	Pin Attributes	Description	PCB Length (mm)	I/O Bank	BRK8305 Net	BRK8305 Pin
MC1	64	AB24	IO_L6P_T0U_N10_AD6P_64	B64_L6P	27.81	64	B64_L6P	MC5-25
MC1	65	AC21	IO_L12N_T1U_N11_GC_64	B64_L12N_GC	21.82	64	B64_L12N_GC	MC5-24
MC1	66	AC24	IO_L6N_T0U_N11_AD6N_64	B64_L6N	27.58	64	B64_L6N	MC5-23
MC1	67	AD21	IO_L11P_T1U_N8_GC_64	B64_L11P_GC	19.88	64	B64_L11P_GC	MC5-22
MC1	68	AD24	IO_L5P_T0U_N8_AD14P_64	B64_L5P	22.94	64	B64_L5P	MC5-21
MC1	69	AE21	IO_L11N_T1U_N9_GC_64	B64_L11N_GC	19.83	64	B64_L11N_GC	MC5-20
MC1	70	AD25	IO_L5N_T0U_N9_AD14N_64	B64_L5N	22.98	64	B64_L5N	MC5-19
MC1	71	AA22	IO_L10P_T1U_N6_QBC_AD4P_64	B64_L10P	23.02	64	B64_L10P	MC5-18
MC1	72	AC26	IO_L4P_T0U_N6_DBC_AD7P_64	B64_L4P	26.19	64	B64_L4P	MC5-17
MC1	73	AB22	IO_L10N_T1U_N7_QBC_AD4N_64	B64_L10N	23.2	64	B64_L10N	MC5-16
MC1	74	AD26	IO_L4N_T0U_N7_DBC_AD7N_64	B64_L4N	26.15	64	B64_L4N	MC5-15
MC1	75	AC22	IO_L9P_T1L_N4_AD12P_64	B64_L9P	21.72	64	B64_L9P	MC5-14
MC1	76	AF24	IO_L3P_T0L_N4_AD15P_64	B64_L3P	21.58	64	B64_L3P	MC5-13
MC1	77	AC23	IO_L9N_T1L_N5_AD12N_64	B64_L9N	21.25	64	B64_L9N	MC5-12
MC1	78	AF25	IO_L3N_T0L_N5_AD15N_64	B64_L3N	21.39	64	B64_L3N	MC5-11
MC1	79	AD23	IO_L8P_T1L_N2_AD5P_64	B64_L8P	23.83	64	B64_L8P	MC5-10
MC1	80	AB25	IO_L2P_T0L_N2_64	B64_L2P	28.67	64	B64_L2P	MC5-9
MC1	81	AE23	IO_L8N_T1L_N3_AD5N_64	B64_L8N	24.27	64	B64_L8N	MC5-8
MC1	82	AB26	IO_L2N_T0L_N3_64	B64_L2N	28.49	64	B64_L2N	MC5-7
MC1	83	AE22	IO_L7P_T1L_N0_QBC_AD13P_64	B64_L7P	21.87	64	B64_L7P	MC5-6
MC1	84	AE25	IO_L1P_T0L_N0_DBC_64	B64_L1P	23.83	64	B64_L1P	MC5-5
MC1	85	AF22	IO_L7N_T1L_N1_QBC_AD13N_64	B64_L7N	22.01	64	B64_L7N	MC5-4
MC1	86	AE26	IO_L1N_T0L_N1_DBC_64	B64_L1N	23.77	64	B64_L1N	MC5-3
MC1	87	AF23	IO_T0U_N12_VRP_64	RESERVED1	20.94	64	RESERVED1	MC5-2
MC1	88	AF20	IO_T1U_N12_64	B64_T1U_N12	28.47	64	B64_T1U_N12	MC5-1
MC1	89	W18	VREF_64	VREF_64		64	VREF_64	
MC1	90			XEM8305_PG			XEM8305_PG	
MC1	91			VDCIN_C			VDCIN	J3-2
MC1	92		GND	DGND			DGND	
MC1	93			VDCIN_C			VDCIN	J3-2
MC1	94		GND	DGND			DGND	
MC1	95			VDCIN_C			VDCIN	J3-2
MC1	96		GND	DGND			DGND	

Connector	Pin	FPGA Pin	Pin Attributes	Description	PCB Length (mm)	I/O Bank	BRK8305 Net	BRK8305 Pin
MC1	97			VDCIN_C			VDCIN	J3-2
MC1	98		GND	DGND			DGND	
MC1	99			VDCIN_C			VDCIN	J3-2
MC1	100		GND	DGND			DGND	
MC2	1	AE12	TCK_0	FPGA_JTAG_TCK		0	FPGA_JTAG_TCK	J501-6
MC2	2	P7	MGTREFCLK0P_226	MGT_REFCLK0P_226_C	28.47	226	MGT_REFCLK0P_226_C	U3-4
MC2	3	AB12	TDI_0	FPGA_JTAG_TDI		0	FPGA_JTAG_TDI	J501-10
MC2	4	P6	MGTREFCLK0N_226	MGT_REFCLK0N_226_C	28.47	226	MGT_REFCLK0N_226_C	U3-5
MC2	5	AB10	TMS_0	FPGA_JTAG_TMS		0	FPGA_JTAG_TMS	J501-4
MC2	6		GND	DGND			DGND	
MC2	7	Y10	TDO_0	FPGA_JTAG_TDO		0	FPGA_JTAG_TDO	J501-8
MC2	8	Y9	VBATT	VBATT			VBATT	
MC2	9		GND	DGND			DGND	
MC2	10	R13	VN	XADC_VN_C			XADC_VN_C	J2-3
MC2	11	K10	IO_L1P_AD15P_85	B85_L1P	24.9	85	PCIE_SMCLK_VIO	J6-B5
MC2	12	P14	VP	XADC_VP_C			XADC_VP_C	J2-1
MC2	13	K9	IO_L1N_AD15N_85	B85_L1N	23.31	85	PCIE_SMDAT_VIO	J6-B6
MC2	14	R14	VREFP	VREFP			VREFP	J2-8
MC2	15	J11	IO_L2P_AD14P_85	B85_L2P	27.32	85	PCIE_PERST_B_VIO	J6-A1
MC2	16		GNDADC,VREFN	GNDADC			GNDADC	J2-7
MC2	17	J10	IO_L2N_AD14N_85	B85_L2N	26.5	85	PCIE_WAKE_B_VIO	J6-B11
MC2	18	N14	VCCADC	VCCADC			VCCADC	J2-2
MC2	19	J9	IO_L3P_AD13P_85	B85_L3P	21.49	85	QSFP_INT_B_VIO	J30-28
MC2	20		GND	DGND			DGND	
MC2	21	H9	IO_L3N_AD13N_85	B85_L3N	21.18	85	QSFP_MODPRS_B_VIO	J30-27
MC2	22	E11	IO_L7P_HDGC_85	B85_L7P_HDGC	16.8	85	B85_L7P_HDGC	MC6-39
MC2	23	H11	IO_L4P_AD12P_85	B85_L4P	26.25	85	QSFP_RESET_B_VIO	J30-9
MC2	24	E10	IO_L7N_HDGC_85	B85_L7N_HDGC	16.61	85	B85_L7N_HDGC	MC6-37
MC2	25	G11	IO_L4N_AD12N_85	B85_L4N	25.24	85	QSFP_MODSEL_B_VIO	J30-8
MC2	26	D11	IO_L8P_HDGC_85	B85_L8P_HDGC	15.73	85	B85_L8P_HDGC	MC6-35
MC2	27	G10	IO_L5P_HDGC_85	B85_L5P_HDGC	25.16	85	QSFP_LP_MODE_VIO	J30-31
MC2	28	D10	IO_L8N_HDGC_85	B85_L8N_HDGC	15.8	85	B85_L8N_HDGC	MC6-33
MC2	29	G9	IO_L5N_HDGC_85	B85_L5N_HDGC	25.24	85	QSFP_SDA_VIO	J30-12

Connect or	Pin	FPGA Pin	Pin Attributes	Description	PCB Length (mm)	I/O Bank	BRK8305 Net	BRK8305 Pin
MC2	30	D9	IO_L9P_AD11P_85	B85_L9P	12.56	85	B85_L9P	MC6-31
MC2	31	F10	IO_L6P_HDGC_85	B85_L6P_HDGC	23.76	85	QSFP_SCL_VIO	J30-11
MC2	32	C9	IO_L9N_AD11N_85	B85_L9N	12.16	85	B85_L9N	MC6-29
MC2	33	F9	IO_L6N_HDGC_85	B85_L6N_HDGC	23.76	85	B85_L6N_HDGC	MC6-40
MC2	34	B9	IO_L10P_AD10P_85	B85_L10P	11.07	85	B85_L10P	MC6-27
MC2	35		GND	DGND			DGND	
MC2	36	A9	IO_L10N_AD10N_85	B85_L10N	10.51	85	B85_L10N	MC6-25
MC2	37		VCCO_85	VCCO_85		85	VCCO_85	
MC2	38	B10	IO_L11P_AD9P_85	B85_L11P	10.34	85	B85_L11P	MC6-23
MC2	39		VCCO_85	VCCO_85		85	VCCO_85	
MC2	40	A10	IO_L11N_AD9N_85	B85_L11N	9.75	85	B85_L11N	MC6-21
MC2	41		VCCO_86	VCCO_86		86	VCCO_86	
MC2	42	C11	IO_L12P_AD8P_85	B85_L12P	11.95	85	B85_L12P	MC6-19
MC2	43		VCCO_86	VCCO_86		86	VCCO_86	
MC2	44	B11	IO_L12N_AD8N_85	B85_L12N	11.37	85	B85_L12N	MC6-17
MC2	45		GND	DGND			DGND	
MC2	46		GND	DGND			DGND	
MC2	47		GND	DGND			DGND	
MC2	48	B14	IO_L12P_AD0P_86	B86_L12P	9.93	86	B86_L12P	MC6-15
MC2	49	F14	IO_L6P_HDGC_AD6P_86	B86_L6P_HDGC	23.29	86	B86_L6P_HDGC	MC6-38
MC2	50	A14	IO_L12N_AD0N_86	B86_L12N	9.51	86	B86_L12N	MC6-13
MC2	51	F13	IO_L6N_HDGC_AD6N_86	B86_L6N_HDGC	23.42	86	B86_L6N_HDGC	MC6-36
MC2	52	A13	IO_L11P_AD1P_86	B86_L11P	13.77	86	B86_L11P	MC6-11
MC2	53	G12	IO_L5P_HDGC_AD7P_86	B86_L5P_HDGC	21.13	86	B86_L5P_HDGC	MC6-34
MC2	54	A12	IO_L11N_AD1N_86	B86_L11N	13.33	86	B86_L11N	MC6-9
MC2	55	F12	IO_L5N_HDGC_AD7N_86	B86_L5N_HDGC	21.07	86	B86_L5N_HDGC	MC6-32
MC2	56	C12	IO_L10P_AD2P_86	B86_L10P	14.87	86	B86_L10P	MC6-7
MC2	57	J15	IO_L4P_AD8P_86	B86_L4P	25.79	86	B86_L4P	MC6-30
MC2	58	B12	IO_L10N_AD2N_86	B86_L10N	14.34	86	B86_L10N	MC6-5
MC2	59	J14	IO_L4N_AD8N_86	B86_L4N	25.3	86	B86_L4N	MC6-28
MC2	60	C14	IO_L9P_AD3P_86	B86_L9P	15.78	86	B86_L9P	MC6-3
MC2	61	H14	IO_L3P_AD9P_86	B86_L3P	21.55	86	B86_L3P	MC6-26
MC2	62	C13	IO_L9N_AD3N_86	B86_L9N	15.16	86	B86_L9N	MC6-1

Connector	Pin	FPGA Pin	Pin Attributes	Description	PCB Length (mm)	I/O Bank	BRK8305 Net	BRK8305 Pin
MC2	63	G14	IO_L3N_AD9N_86	B86_L3N	21.24	86	B86_L3N	MC6-24
MC2	64	D14	IO_L8P_HDGC_AD4P_86	B86_L8P_HDGC	20.51	86	B86_L8P_HDGC	MC6-22
MC2	65	J13	IO_L2P_AD10P_86	B86_L2P	33.87	86	B86_L2P	MC6-14
MC2	66	D13	IO_L8N_HDGC_AD4N_86	B86_L8N_HDGC	20.57	86	B86_L8N_HDGC	MC6-20
MC2	67	H13	IO_L2N_AD10N_86	B86_L2N	33.93	86	B86_L2N	MC6-12
MC2	68	E13	IO_L7P_HDGC_AD5P_86	B86_L7P_HDGC	19.64	86	B86_L7P_HDGC	MC6-18
MC2	69	J12	IO_L1P_AD11P_86	B86_L1P	30.5	86	B86_L1P	MC6-10
MC2	70	E12	IO_L7N_HDGC_AD5N_86	B86_L7N_HDGC	19.67	86	B86_L7N_HDGC	MC6-16
MC2	71	H12	IO_L1N_AD11N_86	B86_L1N	30.82	86	B86_L1N	MC6-8
MC2	72		GND	DGND			DGND	
MC2	73		GND	DGND			DGND	
MC2	74		GND	DGND			DGND	
MC2	75		VCCO_0,VCCAUX,VCCAUX_IO,VCCO_65,MGTVCCAUX_R	1.8V		0,65	1.8V	
MC2	76		GND	DGND			DGND	
MC2	77		VCCO_0,VCCAUX,VCCAUX_IO,VCCO_65,MGTVCCAUX_R	1.8V		0,65	1.8V	
MC2	78	T14	DXP	FPGA_DXP			FPGA_DXP	
MC2	79		VCCO_0,VCCAUX,VCCAUX_IO,VCCO_65,MGTVCCAUX_R	1.8V		0,65	1.8V	
MC2	80	T13	DXN	FPGA_DNX			FPGA_DNX	
MC3	1		GND	DGND			DGND	
MC3	2		GND	DGND			DGND	
MC3	3	G5	MGHTXP3_226	MGT_TXP3_226	14.67	226	MGT_TXP3_226	J30-6
MC3	4	F2	MGTHRX3_226	MGT_RXP3_226	14.08	226	MGT_RXP3_226	J30-25
MC3	5	G4	MGHTXN3_226	MGT_TXN3_226	14.67	226	MGT_TXN3_226	J30-5
MC3	6	F1	MGTHRXN3_226	MGT_RXN3_226	14.06	226	MGT_RXN3_226	J30-24
MC3	7		GND	DGND			DGND	
MC3	8		GND	DGND			DGND	
MC3	9	J5	MGHTXP2_226	MGT_TXP2_226	14.71	226	MGT_TXP2_226	J30-33
MC3	10	H2	MGTHRX2_226	MGT_RXP2_226	14.12	226	MGT_RXP2_226	J30-14
MC3	11	J4	MGHTXN2_226	MGT_TXN2_226	14.72	226	MGT_TXN2_226	J30-34
MC3	12	H1	MGTHRXN2_226	MGT_RXN2_226	14.11	226	MGT_RXN2_226	J30-15
MC3	13		GND	DGND			DGND	
MC3	14		GND	DGND			DGND	
MC3	15	L5	MGHTXP1_226	MGT_TXP1_226	14.75	226	MGT_TXP1_226	J30-3

Connector	Pin	FPGA Pin	Pin Attributes	Description	PCB Length (mm)	I/O Bank	BRK8305 Net	BRK8305 Pin
MC3	16	K2	MGTHRXP1_226	MGT_RXP1_226	14.16	226	MGT_RXP1_226	J30-22
MC3	17	L4	MGHTTXN1_226	MGT_TXN1_226	14.74	226	MGT_TXN1_226	J30-2
MC3	18	K1	MGTHRXP1_226	MGT_RXN1_226	14.14	226	MGT_RXN1_226	J30-21
MC3	19		GND	DGND			DGND	
MC3	20		GND	DGND			DGND	
MC3	21	N5	MGHTTXP0_226	MGT_TXP0_226	14.79	226	MGT_TXP0_226	J30-36
MC3	22	M2	MGTHRXP0_226	MGT_RXP0_226	14.2	226	MGT_RXP0_226	J30-17
MC3	23	N4	MGHTTXN0_226	MGT_TXN0_226	14.78	226	MGT_TXN0_226	J30-37
MC3	24	M1	MGTHRXP0_226	MGT_RXN0_226	14.18	226	MGT_RXN0_226	J30-18
MC3	25		GND	DGND			DGND	
MC3	26		GND	DGND			DGND	
MC3	27	R5	MGHTTXP3_225	MGT_TXP3_225	14.83	225	MGT_TXP3_225	J6-A16
MC3	28	P2	MGTHRXP3_225	MGT_RXP3_225	14.24	225	MGT_RXP3_225	J6-B14
MC3	29	R4	MGHTTXN3_225	MGT_TXN3_225	14.84	225	MGT_TXN3_225	J6-A17
MC3	30	P1	MGTHRXP3_225	MGT_RXN3_225	14.23	225	MGT_RXN3_225	J6-B15
MC3	31		GND	DGND			DGND	
MC3	32		GND	DGND			DGND	
MC3	33	U5	MGHTTXP2_225	MGT_TXP2_225	14.87	225	MGT_TXP2_225	J6-A21
MC3	34	T2	MGTHRXP2_225	MGT_RXP2_225	14.28	225	MGT_RXP2_225	J6-B19
MC3	35	U4	MGHTTXN2_225	MGT_TXN2_225	14.85	225	MGT_TXN2_225	J6-A22
MC3	36	T1	MGTHRXP2_225	MGT_RXN2_225	14.27	225	MGT_RXN2_225	J6-B20
MC3	37		GND	DGND			DGND	
MC3	38		GND	DGND			DGND	
MC3	39	W5	MGHTTXP1_225	MGT_TXP1_225	14.91	225	MGT_TXP1_225	J6-A25
MC3	40	V2	MGTHRXP1_225	MGT_RXP1_225	14.32	225	MGT_RXP1_225	J6-B23
MC3	41	W4	MGHTTXN1_225	MGT_TXN1_225	14.91	225	MGT_TXN1_225	J6-A26
MC3	42	V1	MGTHRXP1_225	MGT_RXN1_225	14.3	225	MGT_RXN1_225	J6-B24
MC3	43		GND	DGND			DGND	
MC3	44		GND	DGND			DGND	
MC3	45	AA5	MGHTTXP0_225	MGT_TXP0_225	14.94	225	MGT_TXP0_225	J6-A29
MC3	46	Y2	MGTHRXP0_225	MGT_RXP0_225	14.36	225	MGT_RXP0_225	J6-B27
MC3	47	AA4	MGHTTXN0_225	MGT_TXN0_225	14.93	225	MGT_TXN0_225	J6-A30
MC3	48	Y1	MGTHRXP0_225	MGT_RXN0_225	14.35	225	MGT_RXN0_225	J6-B28

Connect or	Pin	FPGA Pin	Pin Attributes	Description	PCB Length (mm)	I/O Bank	BRK8305 Net	BRK8305 Pin
MC3	49		GND	DGND			DGND	
MC3	50		GND	DGND			DGND	
MC3	51	AB7	MGTREFCLK0P_224	MGT_REFCLK0P_224_C	15.91	224	MGT_REFCLK0P_224_C	J1
MC3	52	V7	MGTREFCLK0P_225	MGT_REFCLK0P_225_C	21.07	225	MGT_REFCLK0P_225_C	J6-A13
MC3	53	AB6	MGTREFCLK0N_224	MGT_REFCLK0N_224_C	15.91	224	MGT_REFCLK0N_224_C	J1
MC3	54	V6	MGTREFCLK0N_225	MGT_REFCLK0N_225_C	21.08	225	MGT_REFCLK0N_225_C	J6-A14
MC3	55		GND	DGND			DGND	
MC3	56		GND	DGND			DGND	
MC3	57	AC5	MGTHTXP3_224	MGT_TXP3_224	14.51	224	MGT_TXP3_224	J6-A35
MC3	58	AB2	MGTHRXP3_224	MGT_RXP3_224	13.61	224	MGT_RXP3_224	J6-B33
MC3	59	AC4	MGTHTXN3_224	MGT_TXN3_224	14.52	224	MGT_TXN3_224	J6-A36
MC3	60	AB1	MGTHRXP3_224	MGT_RXN3_224	13.6	224	MGT_RXN3_224	J6-B34
MC3	61		GND	DGND			DGND	
MC3	62		GND	DGND			DGND	
MC3	63	AD7	MGTHTXP2_224	MGT_TXP2_224	16.01	224	MGT_TXP2_224	J6-A39
MC3	64	AD2	MGTHRXP2_224	MGT_RXP2_224	13.65	224	MGT_RXP2_224	J6-B37
MC3	65	AD6	MGTHTXN2_224	MGT_TXN2_224	15.99	224	MGT_TXN2_224	J6-A40
MC3	66	AD1	MGTHRXP2_224	MGT_RXN2_224	13.63	224	MGT_RXN2_224	J6-B38
MC3	67		GND	DGND			DGND	
MC3	68		GND	DGND			DGND	
MC3	69	AE9	MGTHTXP1_224	MGT_TXP1_224	17.82	224	MGT_TXP1_224	J6-A43
MC3	70	AE4	MGTHRXP1_224	MGT_RXP1_224	15.64	224	MGT_RXP1_224	J6-B41
MC3	71	AE8	MGTHTXN1_224	MGT_TXN1_224	17.83	224	MGT_TXN1_224	J6-A44
MC3	72	AE3	MGTHRXP1_224	MGT_RXN1_224	15.62	224	MGT_RXN1_224	J6-B42
MC3	73		GND	DGND			DGND	
MC3	74		GND	DGND			DGND	
MC3	75	AF7	MGTHTXP0_224	MGT_TXP0_224	16.19	224	MGT_TXP0_224	J6-A47
MC3	76	AF2	MGTHRXP0_224	MGT_RXP0_224	13.91	224	MGT_RXP0_224	J6-B45
MC3	77	AF6	MGTHTXN0_224	MGT_TXN0_224	16.18	224	MGT_TXN0_224	J6-A48
MC3	78	AF1	MGTHRXP0_224	MGT_RXN0_224	13.92	224	MGT_RXN0_224	J6-B46
MC3	79		GND	DGND			DGND	
MC3	80		GND	DGND			DGND	