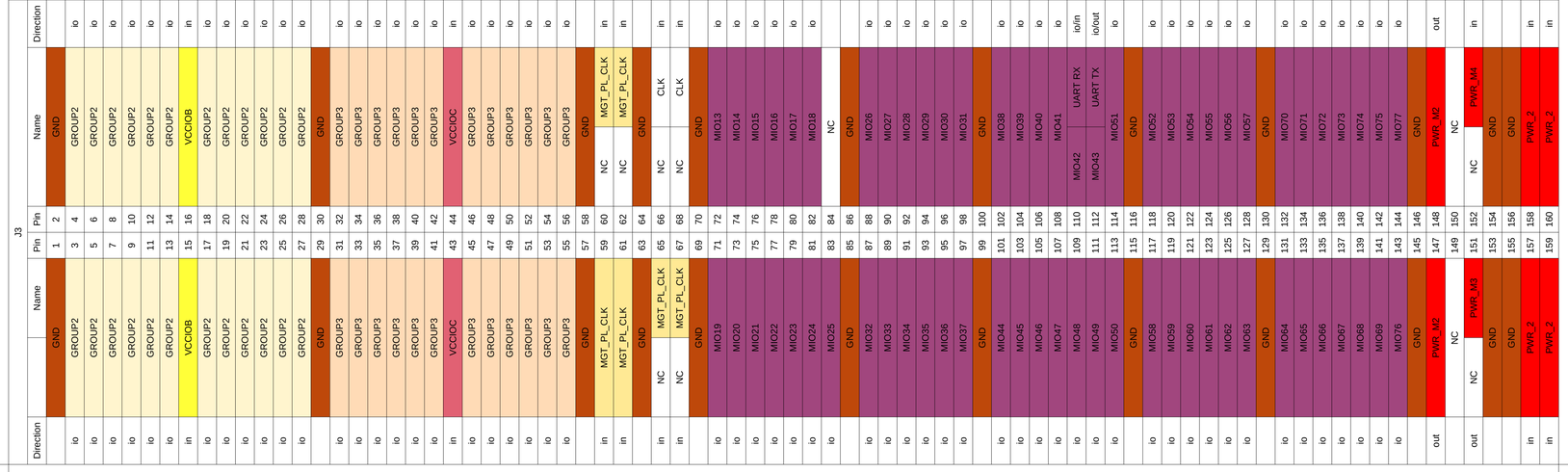
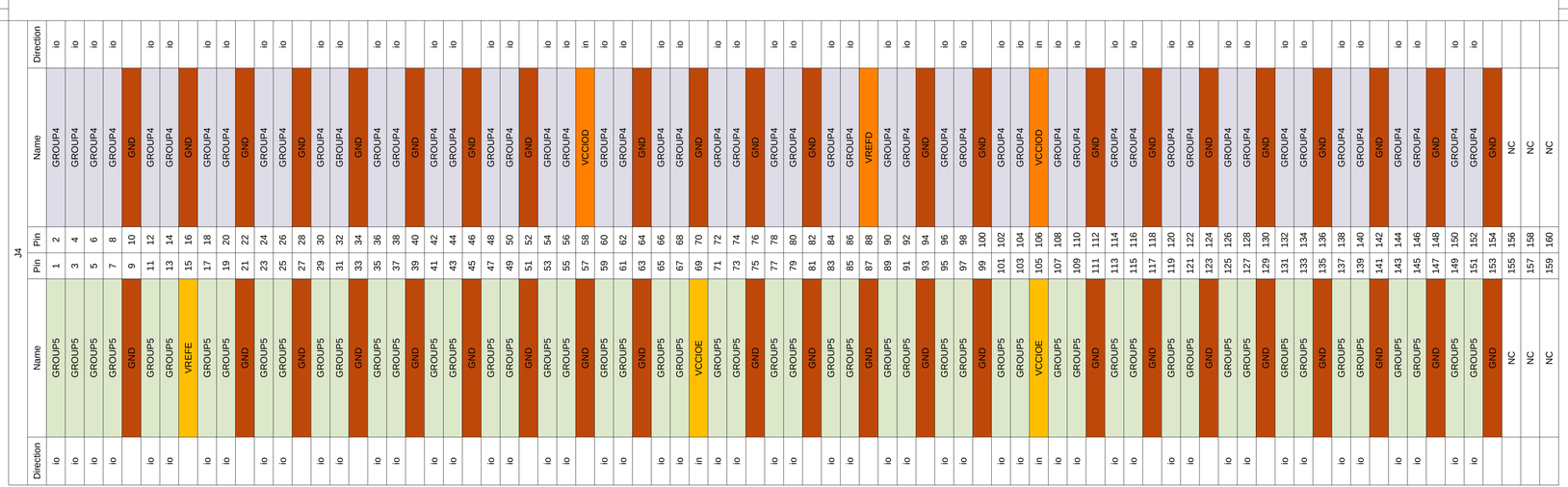


Positions are displayed as Top View

Legend
Power-VCC
Power-GND
GROUP1
GROUP2
GROUP3
GROUP4
GROUP5
MGT
MIO
SPECIAL
VCCIOA
VCCIOB
VCCIOC
VCCIOD
VCCIOE
VREFA
VREFD
VREFE

J1

Direction	Name		Pin	Pin	Name		Direction
	GND		1	2	MGT PL TX	NC	out
in	MGT PL RX	NC	3	4	MGT PL TX	NC	out
in	MGT PL RX	NC	5	6	GND		
	GND		7	8	MGT PL TX	NC	out
in	MGT PL RX	NC	9	10	MGT PL TX	NC	out
in	MGT PL RX	NC	11	12	GND		
	GND		13	14	MGT PL TX	NC	out
in	MGT PL RX	NC	15	16	MGT PL TX	NC	out
in	MGT PL RX	NC	17	18	GND		
	GND		19	20	MGT PL TX	NC	out
in	MGT PL RX	NC	21	22	MGT PL TX	NC	out
in	MGT PL RX	NC	23	24	GND		
	GND		25	26	MGT PL TX	NC	out
in	MGT PL RX	NC	27	28	MGT PL TX	NC	out
in	MGT PL RX	NC	29	30	GND		
	GND		31	32	MGT PL TX	NC	out
in	MGT PL RX	NC	33	34	MGT PL TX	NC	out
in	MGT PL RX	NC	35	36	GND		
	GND		37	38	MGT PL TX	NC	out
in	MGT PL RX	NC	39	40	MGT PL TX	NC	out
in	MGT PL RX	NC	41	42	GND		
	GND		43	44	MGT PL TX	NC	out
in	MGT PL RX	NC	45	46	MGT PL TX	NC	out
in	MGT PL RX	NC	47	48	GND		
	GND		49	50	MGT PL TX		out
in	MGT PL RX		51	52	MGT PL TX		out
in	MGT PL RX		53	54	GND		
	GND		55	56	MGT PL TX		out
in	MGT PL RX		57	58	MGT PL TX		out
in	MGT PL RX		59	60	GND		
	GND		61	62	MGT PL TX		out
in	MGT PL RX		63	64	MGT PL TX		out
in	MGT PL RX		65	66	GND		
	GND		67	68	MGT PL TX		out
in	MGT PL RX		69	70	MGT PL TX		out
in	MGT PL RX		71	72	GND		
	GND		73	74	GROUP1		io
io	GROUP1		75	76	GROUP1		io
io	GROUP1		77	78	GND		
	GND		79	80	GROUP1		io
io	GROUP1		81	82	GROUP1		io
io	GROUP1		83	84	GND		
	GND		85	86	GROUP1		io
io	GROUP1		87	88	GROUP1		io
io	GROUP1		89	90	VCCIOA		in
out	PWR_M1		91	92	GROUP1		io
io	GROUP1		93	94	GROUP1		io
io	GROUP1		95	96	GND		
	GND		97	98	GROUP1		io
io	GROUP1		99	100	GROUP1		io
io	GROUP1		101	102	GND		
	GND		103	104	GROUP1		io
io	GROUP1		105	106	GROUP1		io
io	GROUP1		107	108	VREFA		
	GND		109	110	GROUP1		io
io	GROUP1		111	112	GROUP1		io
io	GROUP1		113	114	GND		
	GND		115	116	GROUP1		io
io	GROUP1		117	118	GROUP1		io
io	GROUP1		119	120	VCCIOA		in
out	PWR_M1		121	122	GROUP1		io
io	GROUP1		123	124	GROUP1		io
io	GROUP1		125	126	GND		
	GND		127	128	GROUP1		io
io	GROUP1		129	130	GROUP1		io
io	GROUP1		131	132	GND		
	GND		133	134	GROUP1		io
io	GROUP1		135	136	GROUP1		io
io	GROUP1		137	138	GND		
	GND		139	140	GROUP1		io
io	GROUP1		141	142	GROUP1		io
io	GROUP1		143	144	GND		
io	GROUP1		145	146	GROUP1		io
io	GROUP1		147	148	GROUP1		io
	GND		149	150	GND		
in	PWR_1		151	152	GND		
in	PWR_1		153	154	GND		
in	PWR_1		155	156	GND		
in	PWR_1		157	158	GND		
in	PWR_1		159	160	GND		

J2

Direction	Name		Pin	Pin	Name		Direction
out	CLK		1	2	GND		
out	CLK		3	4	CLK		in
	GND		5	6	CLK		in
out	CLK	NC	7	8	GND		
out	CLK	NC	9	10	MGT_PS_CLK		in
	GND		11	12	MGT_PS_CLK		in
out	CLK	NC	13	14	GND		
out	CLK	NC	15	16	MGT_PS_CLK		in
	GND		17	18	MGT_PS_CLK		in
	NC		19	20	GND		
	NC		21	22	MGT_PL_CLK	NC	in
	GND		23	24	MGT_PL_CLK	NC	in
out	MGT_PL TX	NC	25	26	GND		
out	MGT_PL TX	NC	27	28	MGT_PL RX	NC	in
	GND		29	30	MGT_PL RX	NC	in
out	MGT_PL TX	NC	31	32	GND		
out	MGT_PL TX	NC	33	34	MGT_PL RX	NC	in
	GND		35	36	MGT_PL RX	NC	in
out	MGT_PL TX	NC	37	38	GND		
out	MGT_PL TX	NC	39	40	MGT_PL RX	NC	in
	GND		41	42	MGT_PL RX	NC	in
out	MGT_PL TX	NC	43	44	GND		
out	MGT_PL TX	NC	45	46	MGT_PL RX	NC	in
	GND		47	48	MGT_PL RX	NC	in
out	MGT_PS TX		49	50	GND		
out	MGT_PS TX		51	52	MGT_PS RX		in
	GND		53	54	MGT_PS RX		in
out	MGT_PS TX		55	56	GND		
out	MGT_PS TX		57	58	MGT_PS RX		in
	GND		59	60	MGT_PS RX		in
out	MGT_PS TX		61	62	GND		
out	MGT_PS TX		63	64	MGT_PS RX		in
	GND		65	66	MGT_PS RX		in
out	MGT_PS TX		67	68	GND		
out	MGT_PS TX		69	70	MGT_PS RX		in
	GND		71	72	MGT_PS RX		in
	NC		73	74	GND		
	NC		75	76	NC		
in	EN_PLL_PWR	NC	77	78	NC		
in	EN_GT_L	NC	79	80	PG_PLL_1V8	NC	out
in	PLL_FINC	NC	81	82	PG_PSGT		out
in	MR		83	84	EN_PSGT		in
out	PLL_LOLn	NC	85	86	ERR_STATUS		out
in	PLL_SEL1	NC	87	88	ERR_OUT		out
in	PLL_RST	NC	89	90	PLL_SCL		in
out	PG_GT_R		91	92	PLL_SDA		in/out
in	PLL_SEL0	NC	93	94	PLL_FDEC	NC	in
in	EN_GT_R		95	96	SRST_B		in
out	PG_GT_L	PG_VCU	97	98	INIT_B		out
out	PWR_M5		99	100	PROG_B		in/out
in	EN_PL		101	102	EN_FPD		in
in	MODE3		103	104	PG_PL		out
in	MODE2		105	106	LP_GOOD		out
in	MODE1		107	108	EN_LPD		in
in	MODE0		109	110	PG_FPD		out
	GND		111	112	EN_DDR		in
in	V_P		113	114	PG_DDR		out
in	V_N		115	116	DONE		out
	GND		117	118	GND		
in	DX_P		119	120	TCK		in
in	DX_N		121	122	TDI		in
	GND		123	124	TDO		out
in	PSBATT		125	126	TMS		in
in	PUDC_B		127	128	GND		
	NC		129	130	NC		
	NC		131	132	NC		
	NC		133	134	NC		
out	PWR_M6		135	136	NC		
	GND		137	138	PWR_3		in
	GND		139	140	PWR_3		in
	GND		141	142	PWR_3		in
	GND		143	144	PWR_3		in
	GND		145	146	GND		
	GND		147	148	GND		
	GND		149	150	GND		
	GND		151	152	GND		
in	PWR_4		153	154	PWR_4		in
in	PWR_4		155	156	PWR_4		in
in	PWR_4		157	158	PWR_4		in
in	PWR_4		159	160	PWR_4		in