Igloo	Standard	Pin N	umbers	Standard	Product Name Igloo
Pin Type	Pin Type	Тор	Bottom	Pin Type	Pin Type
+3.3V	+3.3V	1	2	GND	GND
GND	GND	3	4	+5V MTB	+5V MTB
+5V MTB +5V MTB	+5V MTB +5V MTB	5 7	6 8	+5V MTB GND	+5V MTB GND
GND	GND	9	10	JTAG SEL	JTAG SEL
POR/	POR/	11	12	GND	GND
TDO	TDO	13	14	RESET/	RESET/
GND	GND	15	16	TDI	TDI
TMS	TMS	17	18	GND	GND
TRST	TRST	19	20	IO0 / CTS1	
GND +5V DTB	GND +5V DTB	21	22 24	+5V DTB GND	+5V DTB GND
SCL1	IO1 / SCL1	25	26	TCK	TCK
GND	GND	27	28	GND	GND
Tx1	IO2 / Tx1	29	30	IO3 / SDA1	SDA1
Rx1	IO4 / RX1	31	32	IO5 / RTS1	
+5V MTB	+5V MTB	33	34	+5V MTB	+5V MTB
+5V MTB +5V MTB	+5V MTB +5V MTB	35 37	36 38	+5V MTB +5V MTB	+5V MTB +5V MTB
GND	GND	39	40	GND	GND
GND	GND	41	42	GND	GND
P1_1	106	43	44	107	P1_2
P1_3	108	45	46	109	P1_4
GND	IO10	47	48	IO110	GND
P1_5	IO12 / SCLK1	49	50	IO13 / MOSI1 / QS1_0	P1_6
P1_7	IO14 / MISO1 / QS1_1	51	52	IO15 / QS1_2	P1_8
GND	GND	53	54	GND	GND
P2_1	IO16 / QS1_3 IO18	55 57	56 58	IO17 IO19	P2_2
P2_3 GND	IO18 IO20	59	58 60	IO19 IO21	P2_4 GND
P2_5	IO20 IO22	61	62	1021	P2 6
P2_7	1024	63	64	1025	P2_8
GND	GND	65	66	GND	GND
P3_1	IO26	67	68	IO27	P3_2
P3_3	IO28	69	70	IO29	P3_4
GND	IO30	71	72	IO31	GND
P3_5	IO32	73	74	1033	P3_6
P3_7 GND	IO34 GND	75 77	76 78	IO35 GND	P3_8 GND
GND	DIFF1-A / CANL	79	80	DIFF1-B / CANH	GND
+3.3V	+3.3V	81	82	+3.3V	+3.3V
P4_1	IO36	83	84	IO37	P4_2
P4_3	IO38	85	86	IO39	P4_4
+3.3V	+3.3V	87	88	+3.3V	+3.3V
P8_6	IO40	89	90	IO41	P4_6
P4_7	IO42	91	92	IO43	P4_8
+3.3V	IO44 +3.3V	93 95	94 96	IO45 +3.3V	+3.3V
T3.3V	IO46				+3.3V
				IO47	
	IO48	97 99	98 100	IO47 IO49	
		97 99 101	100 102	IO47 IO49 IO51	
+3.3V	IO48	99	100	IO49	+3.3V
+3.3V	IO48 IO50 +3.3V IO52	99 101 103 105	100 102 104 106	IO49 IO51 +3.3V IO53	+3.3V
+3.3V	IO48 IO50 +3.3V IO52 IO54	99 101 103 105 107	100 102 104 106 108	IO49 IO51 +3.3V IO53 IO55	+3.3V
	IO48 IO50 +3.3V IO52 IO54 IO56	99 101 103 105 107 109	100 102 104 106 108 110	IO49 IO51 +3.3V IO53 IO55 IO57	
+3.3V +3.3V	IO48 IO50 +3.3V IO52 IO54 IO56 +3.3V	99 101 103 105 107 109 111	100 102 104 106 108 110 112	IO49 IO51 +3.3V IO53 IO55 IO57 +3.3V	+3.3V
	IO48 IO50 +3.3V IO52 IO54 IO56 +3.3V IO58	99 101 103 105 107 109 111 113	100 102 104 106 108 110 112 114	IO49 IO51 +3.3V IO53 IO55 IO57 +3.3V IO59	
	IO48 IO50 +3.3V IO52 IO54 IO56 +3.3V	99 101 103 105 107 109 111	100 102 104 106 108 110 112	IO49 IO51 +3.3V IO53 IO55 IO57 +3.3V	
+3.3V	IO48 IO50 +3.3V IO52 IO54 IO56 +3.3V IO58 IO60	99 101 103 105 107 109 111 113	100 102 104 106 108 110 112 114 116	IO49 IO51 +3.3V IO53 IO55 IO57 +3.3V IO59	+3.3V
+3.3V	1048 1050 +3.3V 1052 1054 1056 +3.3V 1060 43.3V DIFF2-A	99 101 103 105 107 109 111 113 115 117 119	100 102 104 106 108 110 112 114 116 118 120	IO49 IO51 +3.3V IO55 IO57 +3.3V IO59 IO61 +3.3V	+3.3V +3.3V
+3.3V +3.3V GND P5_1	IO48 IO50 IO52 IO54 IO56 +3.3V IO58 IO60 +3.3V DIFF2-A GND IO62 / MDC	99 101 103 105 107 109 111 113 115 117 119 121 123	100 102 104 106 108 110 112 114 116 118 120 122 124	IO49 IO51 +3.3V IO55 IO57 +3.3V IO59 IO61 +3.3V IDFP2-8 GND IO63 / MDIO	+3.3V +3.3V GND P5_2
+3.3V +3.3V GND P5_1 P5_3	IO48 IO50 +3.3V IO56 IO56 IO58 IO60 IO60 1058 IO60 IO60 IO62 / MDC IO62 / MDC IO64 / INTR	99 101 103 105 107 109 111 113 115 117 119 121 123 125	100 102 104 106 108 110 112 114 116 118 120 122 124 126	IO49 IO51 +3.3V IO55 IO57 +3.3V IO59 IO61 IO61 +3.3V DIFF2-B GND IO63 / MDIO IO65 / RRESET	+3.3V +3.3V GND P5_2 P5_4
+3.3V +3.3V GND P5_1 P5_3 GND	IO48 IO50 IO52 IO54 IO55 IO56 IO58 IO60 IO60 IO60 IO60 IO62 IO64 / INTR IO66 / CRS	99 101 103 105 107 109 111 113 115 117 119 121 123 125	100 102 104 106 108 110 112 114 116 118 120 122 124 126 128	IO49 IO51 IO51 IO53 IO55 IO57 +3.3V IO59 IO61 +3.3V IOFF2-B GND IO63 / MDIO IO65 / nRESET IO67 / COL	+3.3V +3.3V GND P5_2 P5_4 GND
+3.3V +3.3V GND P5_1 P5_3 GND P5_5	IO48 IO50 IO52 IO54 IO56 IO56 +3.3V IO68 IO60 +3.3V IOFF2-A GND IO62 / MDC IO64 / INTR IO66 / CRS IO66 / TX_CLK	99 101 103 105 107 109 111 113 115 117 119 121 123 125	100 102 104 106 108 110 112 114 116 118 120 122 124 126	IO49 IO51 +3.3V IO55 IO57 +3.3V IO59 IO61 IO61 +3.3V DIFF2-B GND IO63 / MDIO IO65 / RRESET	+3.3V +3.3V GND P5_2 P5_4
+3.3V +3.3V GND P5_1 P5_3 GND	IO48 IO50 IO52 IO54 IO55 IO56 IO58 IO60 IO60 IO60 IO60 IO62 IO64 / INTR IO66 / CRS	99 101 103 105 107 109 111 113 115 117 119 121 123 125 127	100 102 104 106 108 110 112 114 116 118 120 122 124 126 128 130	IO49 IO51 IO51 IO53 IO55 IO57 +3.3V IO59 IO61 +3.3V IDFP2-8 GND IO63 / MDIO IO65 / RRESET IO67 / COL IO69 / GTX_CLK	+3.3V +3.3V GND P5_2 P5_4 GND P5_6
+3.3V +3.3V GND P5_1 P5_3 GND P5_5 P5_5	IO48 IO50 1052 IO52 IO54 IO56 13.3V IO58 IO60 13.3V DIFF2-A GND IO62 / MDC IO64 / INTR IO66 / CRS IO68 / TX_CLK IO70 / TX_EN	99 101 103 105 107 109 111 113 115 117 119 121 123 125 127 129 131 133 135	100 102 104 106 108 110 112 114 116 118 120 122 124 126 128 130 132 134 136	IO49 IO51 IO51 IO57 IO57 IO59 IO61 IO61 IO63 / MDIO IO63 / MDIO IO65 / RRESET IO67 / COL IO69 / GTX_CLK GND IO71 / TX_ER IO71 / TX_ER IO73 / TXD1	+3.3V 43.3V GND P5_2 P5_4 GND P5_6 GND P5_8
+3.3V +3.3V GND PS_1 PS_3 GND PS_5 PS_7 GND	IO48 IO50 IO52 IO54 IO56 IO58 IO60 IO60 IO60 IO60 IO62 IO62 IO64/INTR IO66/CRS IO68/TX_CLK IO70/TX_EN GND IO72/TXD0 IO74/TXD2	99 101 103 105 107 109 111 113 115 117 119 121 123 125 127 129 131 133 135 137	100 102 104 106 108 110 112 114 116 118 120 122 124 126 128 130 132 134 136 138	IO49 IO51 IO53 IO55 IO57 IO59 IO61 IO61 IO62 IO68 / MDIO IO66 / nRESET IO67 / COL IO69 / GTX_CLK GND IO73 / TX_ER IO73 / TXD1 GND	+3.3V 43.3V GND P5_2 P5_4 GND P5_6 GND
+3.3V +3.3V GND P5_1 P5_3 GND P5_5 P5_5	IO48 IO50 IO52 IO54 IO56 IO56 +3.3V IO56 +3.3V IO60 -43.3V IO60 -43.3V IO60 IO62 / MDC IO64 / INTR IO66 / CRS IO68 / TX_CLK IO70 / TX_EN GND IO72 / TX_EN GND IO72 / TXDO IO74 / TXDO GND	99 101 103 105 107 109 111 113 115 117 119 121 123 125 127 129 131 133 133 135 137	100 102 104 106 108 110 112 114 116 118 120 122 124 126 128 130 132 134 136 138 140	IO49 IO51 IO51 IO53 IO55 IO57 +3.3V IO59 IO61 H-3.3V IOF2-B GND IO63 / MDIO IO65 / nRESET IO66 / nRESET IO67 / COL IO69 / GTX_CLK GND IO71 / TX_ER IO73 / TXD1 GND IO75 / TXD1 GND IO75 / TXD1 GND IO75 / TXD1 GND IO75 / TXD3	+3.3V 43.3V GND P5_2 P5_4 GND P5_6 GND P5_8
+3.3V +3.3V GND PS_1 PS_3 GND PS_5 PS_7 GND	IO48 IO50 IO52 IO54 IO55 +3.3V IO58 IO66 +3.3V IOFE-A GND IO62 / MDC IO64 / INTR IO66 / CRS IO68 / TX,CLK IO70 / TX,EN GND IO72 / TXD0 IO72 / TXD0 IO74 / TXD2 GND IO76 / TXD4	99 101 103 105 107 109 111 113 115 117 119 121 123 125 127 129 131 133 135 137 139 141	100 102 104 106 108 110 112 114 116 120 122 124 126 130 132 134 136 138 140 142	IO49 IO51 IO51 IO57 IO57 IO59 IO59 IO61 IO61 IO63 / MDIO IO63 / MDIO IO65 / RRESET IO67 / COL IO69 / GTX_CLK GND IO71 / TX_ER IO73 / TXD1 GND IO75 / TXD3 IO77 / TXD5	+3.3V 6ND P5_2 P5_4 6ND P5_6 6ND P5_8 6ND
+3.3V +3.3V GND PS_1 PS_3 GND PS_5 GND GND GND	IO48 IO50 IO52 IO54 IO55 IO56 IO58 IO58 IO58 IO58 IO58 IO58 IO58 IO59 IO59 IO59 IO59 IO59 IO59 IO59 IO59	99 101 103 105 107 109 111 113 115 117 119 121 123 125 127 129 131 133 135 137 137 141	100 102 104 106 108 110 112 114 116 120 122 124 126 133 132 134 136 138 134 136 140 142	IO49 IO51 IO53 IO53 IO55 IO57 +3.3V IO59 IO61 +3.3V IOFFZ-B GND IO63 / MDIO IO66 / FRESET IO66 / GTX_CLK GND IO71 / TX_ER IO73 / TXD1 GND IO75 / TXD1 IO77 / TXD5 GND	+3.3V 43.3V GND P5_2 P5_4 GND P5_6 GND P5_8
+3.3V +3.3V GND P5.1 GND P5.5 GND GND	IO48 IO50 IO52 IO54 IO55 IO56 +3.3V IO58 IO60 -3.3V IOFE-A GND IO62 / MDC IO64 / INTR IO66 / CRS IO68 / TX_CLK IO70 / TX_EN GND IO72 / TXDO IO74 / TXD2 GND IO76 / TXD4 IO78 / TXD6 GND	99 101 103 105 107 109 111 113 115 117 121 123 125 127 129 131 133 135 137 139 141 141	100 102 104 106 108 110 112 114 116 120 122 124 126 130 132 134 136 138 140 142	IO49 IO51 IO51 IO53 IO55 IO57 +3.3V IO59 IO61 H-3.3V IOFP-2-B GND IO62 / MDIO IO65 / nRESET IO67 / COL IO69 / GTX_CLK GND IO71 / TX_ER IO73 / TXD1 IO77 / TXD5 IO77 / TXD5 IO77 / TXD5 IO77 / TXD5 IO79 / TXD7	+3.3V +3.3V GND PS_2 GND PS_6 GND PS_6 GND PS_8 GND GND
+3.3V +3.3V GND PS_1 PS_3 GND PS_5 PS_7 GND	IO48 IO50 IO52 IO52 IO54 IO56 -3-33V IO58 IO60 -3-33V IOFE2-A GND IO62 / MDC IO64 / INTR IO66 / CRS IO68 / TX_CLK IO70 / TX_EN GND IO72 / TXD0 IO74 / TXD2 GND IO76 / TXD4 IO78 / TXD6 GND IO78 / TXD7 IO78 / TXD6 GND IO78 / TXD6 GND IO78 / TXD7 IO7	99 101 103 105 107 109 111 113 115 117 119 121 123 125 127 129 131 133 135 137 137 141	100 102 104 106 108 110 112 114 116 118 120 122 124 126 128 130 132 134 136 138 140 142 144 144	IO49 IO51 IO53 IO53 IO55 IO57 +3.3V IO59 IO61 +3.3V IOFFZ-B GND IO63 / MDIO IO66 / FRESET IO66 / GTX_CLK GND IO71 / TX_ER IO73 / TXD1 GND IO75 / TXD1 IO77 / TXD5 GND	+3.3V +3.3V GND PS_2 PS_4 GND PS_6 GND GND P6_0 GND
+3.3V +3.3V GND PS_1 GND PS_5 GND GND GND 60,1	IO48 IO50 IO52 IO54 IO55 IO56 +3.3V IO58 IO66 +3.3V IOFF2-A GND IO62 / MDC IO64 / INTR IO66 / CRS IO68 / TX_CLK IO70 / TX_EN GND IO72 / TXD0 IO74 / TXD2 GND IO76 / TXD4 IO78 / TXD6 GND IO80 / RX_CLK I	99 101 103 105 107 109 111 113 115 121 122 123 125 127 129 131 133 135 137 137 141 143 145 147 149 151	100 102 104 106 108 110 112 114 116 118 120 122 124 128 130 132 134 136 138 140 141 144 146 148 150 150	IO49 IO51 IO51 IO53 IO55 IO57 +3.3V IO59 IO61 IO61 +3.3V IOFP-2-B GND IO62 / MDIO IO65 / MDIO IO65 / MREST IO67 / COL IO69 / GTX_CLK GND IO71 / TX_ER IO73 / TXD1 IO77 / TXD3 IO77 / TXD5 IO79 / TXD7 IO81 / RX_DV IO81 / RX_DV IO83 / RXD0 IO88 / RXD0	+3.3V 6ND P5.2 P5.4 GND P5.6 GND P5.6 GND P6.8 GND P6.8 GND P6.2 GND P6.4
+3.3V +3.3V GND P5_1 P5_3 GND GND GND GND GND GND GND GN	IO48	99 101 103 107 109 111 113 115 117 119 121 123 125 127 129 131 133 135 137 139 141 143 145 147 149 151 151	100 102 104 106 108 110 112 114 116 120 122 124 126 128 130 132 134 136 140 142 144 148 150	IO49 IO51 IO51 IO53 IO55 IO57 +3.3V IO59 IO59 IO61 +3.3V IOFP.2-B GND IO63 / MDIO IO63 / MDIO IO65 / RESET IO77 / TX ER IO73 / TXD1 GND IO75 / TXD3 IO77 / TXD5 GND IO77 / TXD5 GND IO79 / TXD7 IO81 / RXD0 IO85 / RXD0 IO85 / RXD0	+3.3V +3.3V GND P5_2 P5_4 GND P5_6 GND P6_8 GND GND P6_2 GND P6_2 GND P6_4 P6_6
+3.3V +3.3V GND PS_1 PS_3 GND PS_5 GND GND GND P6_1 GND P6_3 GND GND GND GND GND GND GND GN	IO48 IO50 IO52 IO52 IO54 IO55 IO58 IO58 IO58 IO58 IO58 IO59 IO59 IO59 IO59 IO59 IO59 IO59 IO59	99 101 103 105 107 109 111 113 115 117 119 121 123 125 127 131 133 135 137 139 141 143 144 147 149 151 153 155	100 102 104 106 108 110 112 114 116 118 120 122 124 130 132 133 134 136 138 134 140 142 144 145 150 152	IO49 IO51 IO51 IO53 IO53 IO55 IO57 IO59 IO69 IO61 IO63 / MDIO IO65 / IRESET IO66 / COL IO69 / GTX_CLK GND IO71 / TX_ER IO73 / TXD1 GND IO77 / TXD5 GND IO79 / TXD7 IO81 / RX_DV IO88 / RXD0 IO88 / RXD0 IO88 / RXD2 IO87 / RXD4 IO88 / RXD2 IO87 / RXD4 IO87 / TXD7 IO88 / RXD0 IO88 / RXD2 IO87 / RXD4 IO87 / RXD4 IO88 / RXD0 IO88 / RXD2 IO87 / RXD4 IO87 / RXD4 IO87 / RXD4 IO87 / RXD4 IO88 / RXD2 IO87 / RXD4 IO87 / RXD	+3.3V +3.3V GND PS_2 PS_4 GND PS_6 GND GND P6_4 GND P6_4 GND P6_6 GND
+3.3V +3.3V GND P5_1 P5_3 GND GND GND GND GND GND GND GN	IO48 IO50 IO52 IO54 IO55 IO56 +3.3V IO58 IO66 -3.3V IOFF2-A GND IO66/CRS IO66 / INTR IO66/CRS IO68 / TX_CLK IO70 / TX_EN GND IO72 / TXD0 IO74 / TXD2 GND IO76 / TXD4 GND IO78 / TXD6 GND IO82 / RX_ER IO83 / RX_CLK IO84 / RXCILK IO78 / TXD6 GND IO84 / RXCILK IO86 / RX_CLK IO86 / RXCILK IO86 / RXCIL	99 101 103 105 107 109 111 113 115 117 119 121 123 125 127 129 131 133 135 137 141 143 144 147 149 151 153 155 157	100 102 104 106 108 110 112 114 116 122 128 126 128 130 132 134 140 144 146 148 150 152 154	IO49 IO51 IO51 IO53 IO55 IO57 +3.3V IO59 IO61 IO61 +3.3V IO59 IO62 IO67 IO65 IO67 IO65 IO67 IO67 IO67 IO70 IO70 IO70 IO70 IO70 IO70 IO70 IO7	+3.3V +3.3V GND P5_2 P5_4 GND P5_6 GND P6_8 GND GND P6_2 GND P6_2 GND P6_4 P6_6
+3.3V +3.3V GND P5_1 P5_3 GND GND GND GND GND GND GND GN	IO48	99 101 103 105 107 109 111 113 115 117 121 123 125 127 129 131 133 135 137 139 141 143 145 147 151 153 155 157 159	100 102 104 106 108 110 111 114 116 118 120 122 124 125 130 132 134 136 138 139 140 142 144 145 150 151 152 154 156	IO49 IO51 IO51 IO53 IO55 IO57 +3.3V IO59 IO61 +3.3V IO59 IO61 H-3.3V IOFP2-B GND IO63 / MDIO IO65 / RESET IO67 / COL IO69 / GTX_CLK GND IO71 / TX_ER IO73 / TXD1 GND IO75 / TXD3 IO77 / TXD5 GND IO79 / TXD7 IO81 / RXD0 IO85 / RXD0 IO85 / RXD0 IO85 / RXD0 IO86 / RXD2 IO87 / RXD4 GND IO89 / RXD6	+3.3V 6ND P5_2 P5_4 GND P5_6 GND P5_6 GND GND 6ND 6ND 6ND 6ND 6ND 6ND
+3.3V +3.3V GND PS_1 PS_3 GND PS_5 GND GND GND P6_1 GND P6_3 GND GND GND GND GND GND GND GN	IO48 IO50 IO52 IO54 IO55 IO56 +3.3V IO58 IO66 -3.3V IOFF2-A GND IO66/CRS IO66 / INTR IO66/CRS IO68 / TX_CLK IO70 / TX_EN GND IO72 / TXD0 IO74 / TXD2 GND IO76 / TXD4 GND IO78 / TXD6 GND IO82 / RX_ER IO83 / RX_CLK IO84 / RXCILK IO78 / TXD6 GND IO84 / RXCILK IO86 / RX_CLK IO86 / RXCILK IO86 / RXCIL	99 101 103 105 107 109 111 113 115 117 119 121 123 125 127 129 131 133 135 137 141 143 144 147 149 151 153 155 157	100 102 104 106 108 110 112 114 116 122 128 126 128 130 132 134 140 144 146 148 150 152 154	IO49 IO51 IO51 IO53 IO55 IO57 +3.3V IO59 IO61 IO61 +3.3V IO59 IO62 IO67 IO65 IO67 IO65 IO67 IO67 IO67 IO70 IO70 IO70 IO70 IO70 IO70 IO70 IO7	+3.3V +3.3V GND PS_2 PS_4 GND PS_6 GND GND P6_4 GND P6_4 GND P6_6 GND
+3.3V +3.3V GND P5_1 P5_3 GND GND GND GND GND GND GND GN	IO48 IO50 IO52 IO52 IO54 IO55 IO56 IO58 IO58 IO60 IO60 IO60 IO67 IO67 IO67 IO67 IO67 IO67 IO67 IO67	99 101 103 105 107 109 111 113 115 117 119 121 122 127 129 121 133 133 135 137 141 143 144 149 151 151 155 157 159 161	100 102 104 106 108 110 111 114 118 120 122 124 126 130 132 134 136 138 140 141 144 145 150 152 154 156 158	IO49 IO51 IO51 IO53 IO53 IO55 IO57 IO59 IO69 IO69 IO69 IO69 IO67 IO69 IO67 IO69 IO67 IO69 IO70 IO71 ITX_ER IO73 IO77 IO7T IO7T IO80 IO77 IO80 IO77 IO80 IO77 IO80 IO88 IO77 IO80 IO88 IO88 IO77 IO80 IO88 IO80 IO89 IO80 IO89 IO80 IO89 IO80 IO80 IO80 IO80 IO80 IO80 IO80 IO80	+3.3V 6ND P5_2 P5_4 GND P5_6 GND P5_6 GND GND 6ND 6ND 6ND 6ND 6ND 6ND
+3.3V +3.3V 6ND PS_1 PS_3 6ND PS_5 GND GND 6ND 60.1 60.3 P6_5 60.5 60.0 F6_7 GND	IO48 IO50 IO52 IO52 IO54 IO55 IO56 IO56 IO58 IO58 IO60 IO60 IO61 IO62 IO67 IO67 IO67 IO67 IO67 IO67 IO67 IO67	99 101 103 105 107 109 111 113 115 117 121 122 127 129 131 133 135 137 141 143 145 151 153 155 157 159 161 163	100 102 104 106 108 110 1112 114 116 118 120 122 124 128 130 132 134 136 134 140 142 144 146 148 150 152 154 165 165 166 166 166	IO49 IO51 IO51 IO53 IO55 IO57 +3.3V IO53 IO55 IO57 +3.3V IO59 IO69 IO61 IO61 +3.3V IO66 IO61 IO65 / RESET IO66 / COL IO69 / GTX_CLK GND IO71 / TX_ER IO73 / TXD1 IO77 / TXD5 I	+3.3V 6ND P5_2 P5_4 GND P5_6 GND P5_6 GND GND 6ND 6ND 6ND 6ND 6ND 6ND
+3.3V +3.3V GND PS_1 PS_3 GND PS_5 GND GND GND 60.1 GND 60.1 GND 60.3 60.5 60.7 GND GND GND GND GND GND GND GN	IO48 IO50 IO52 IO54 IO52 IO54 IO56 +3.3V IO58 IO66 -3.3V IOFE-A GND IO62 / MDC IO64 / INTR IO66 / CRS IO68 / TX_CLK IO70 / TX_EN GND IO72 / TXD0 IO74 / TXD2 GND IO76 / TXD4 IO78 / TXD6 GND IO78 / TXD6 GND IO78 / TXD6 GND IO80 / RX_CLK IO81 / RXD1 IO86 / RXD3 IO90 / RXD7 GND IOFF3-A / SDA2 GND IDIFF3-A / SDA2 GND IDIFF4-B / Rx2 IDIFF5-A / RTS2	99 101 103 105 107 109 111 113 115 121 122 125 127 131 133 125 127 139 141 143 145 147 151 153 155 157 159 163 165 167 169	100 102 104 106 108 110 1112 114 116 118 120 122 124 128 130 132 134 136 134 140 142 144 146 148 150 152 154 166 168 166 168 170	IO49 IO51 IO51 IO51 IO57 IO53 IO55 IO57 IO59 IO61 IO61 IO61 IO63 / MDIO IO65 / NREST IO67 / COL IO66 / GTX_CLK GND IO71 / TX_ER IO73 / TXD1 GND IO75 / TXD3 IO77 / TXD5 IO79 / TXD7 IO81 / RX_DV IO83 / RXD0 IO88 / RXD0 IO89	+3.3V GND PS_2 PS_4 GND PS_6 GND PS_6 GND PS_8 GND PS_8 GND
+3.3V GND PS_1 PS_3 GND PS_5 GND GND GND GND GND GND P6_1 GND P6_1 GND P6_3 GND	IO48 IO50 IO52 IO52 IO52 IO54 IO55 IO56 IO57 IO56 IO57 IO56 IO57 IO56 IO57 IO56 IO57 IO56	99 101 103 105 107 109 111 113 115 117 119 122 123 125 127 129 131 133 135 137 141 143 144 149 153 155 157 159 161 163 165 167 169 171	100 102 104 106 108 110 111 114 116 118 120 122 124 132 134 133 134 135 138 140 152 154 156 158 156 160 162 166 168	IO49 IO51 IO51 IO53 IO53 IO55 IO57 +3.3V IO59 IO61 +3.3V IOFE7 IO69 IO61 IO63 / MDIO IO65 / NRESET IO66 / GTX_CLK GND IO71 / TX_ER IO73 / TXD1 IO75 / TXD1 IO77 / TXD1 IO77 / TXD5 GND IO78 / RXD2 IO78 / RXD2 IO88 / RXD2 IO87 / RXD4 IO91 IO87 / RXD4 IO91 IO91 IO91 IO91 IO91 IO91 IO91 IO91	+3.3V +3.3V GND P5_2 P5_4 GND P5_6 GND P6_8 GND P6_6 GND GND GND GND GND GND GND GN
+3.3V +3.3V GND PS_1 PS_1 GND PS_5 GND GND GND GND GND GND GND GN	IO48 IO50 IO52 IO52 IO54 IO55 IO56 IO58 IO58 IO58 IO60 IO60 IO57 IO60 IO62/IMDC IO66/CRS IO66/CRS IO66/CRS IO66/TX_CLK IO70/TX_EN IO70/TX_EN IO76/TXDC IO78/TXDC IO78/	99 101 103 105 107 109 111 113 115 117 122 123 125 127 129 131 133 135 137 139 141 143 145 149 151 153 155 157 159 161 163 163 165 167 169 169	100 102 104 106 108 110 112 114 116 118 120 122 124 126 128 130 131 136 141 144 145 150 152 154 165 166 168 170	IO49 IO51 IO51 IO53 IO55 IO57 +3.3V IO53 IO55 IO57 +3.3V IO59 IO69 IOFE2-B GND IO63 / MDIO IO65 / NESET IO67 / COL IO69 / GTX_CLK GND IO71 / TX_ER IO73 / TXD1 GND IO77 / TXD5 GND IO77 / TXD5 GND IO79 / TXD7 IO81 / RX_DV IO83 / RXD0 IO88 / RXD2 IO87 / RXD4 IO89 / RXD6 IO91 IO89 / RXD6 IO91 IO89 / RXD6 IO91 IOFF3-B / SCL2 IDFF4-A / Tx2 GND IDFF5-B / CTS2 GND IO93 / MOSI2 / QS2_0	+3.3V +3.3V 6ND P5_2 P5_6 GND P5_6 GND P6_2 GND P6_2 GND P6_8 GND GND GND F7_2
+3.3V +3.3V GND PS_1 PS_3 GND PS_5 PS_7 GND GND GND GND GND GND GND GN	IO48	99 101 103 105 107 109 111 113 121 122 123 125 127 129 131 133 135 137 141 143 145 147 149 151 153 155 157 159 161 163 165 169 171 173 173	100 102 104 106 108 110 1112 114 116 118 120 122 124 128 130 132 134 134 134 134 140 142 144 145 155 154 155 160 161 161 161 161 161 161 161 161 161	IO49 IO51 IO51 IO51 IO53 IO55 IO57 IO59 IO61 IO61 IO61 IO63 IO67 IO63 IO67 IO68 IO67 IO68 IO71 IO68 IO71 IO72 IO73 IO75 IO71 IO71 IO71 IO71 IO71 IO71 IO71 IO71	+3.3V 6ND P5.2 P5.4 GND P5.6 GND P5.8 GND GND GND GND GND GND GND F6.2 GND F6.3 GND F7.2 F7.4
+3.3V +3.3V GND PS_1 PS_1 GND PS_5 GND GND GND GND GND GND GND GN	IO48	99 101 103 105 107 117 118 115 117 121 123 123 125 127 129 131 133 135 137 139 141 143 145 151 155 157 161 163 163 167 169 171 173 173 173 173 173 173 173 173 173	100 102 104 106 108 110 111 111 116 118 120 122 124 130 132 133 140 141 144 146 150 152 154 166 168 170 172 174 176	IO49 IO51 IO51 IO53 IO53 IO55 IO57 +3.3V IO59 IO61 +3.3V IOFE7-B GND IO63 / MDIO IO65 / NRESET IO66 / GTX_CLK GND IO71 / TX_ER IO73 / TXD1 GND IO75 / TXD1 IO75 / TXD1 IO77 / TXD5 GND IO78 / RXD2 IO81 / RXD4 IO78 / RXD4 IO79 / TXD7 IO79 / TXD7 IO79 / TXD7 IO81 / RXD4 IO87 / RXD5 IO87 / RXD5 IO87 / RXD6 IO91 IO87 / RXD6 IO91 IO91 IO91 IO91 IO91 IO91 IO91 IO91	+3.3V +3.3V GND P5_2 P5_4 GND P5_6 GND P6_2 GND P6_6 GND GND GND GND GND F6_7 GND GND GND GND GND GND GND GN
+3.3V +3.3V GND P5_1 P5_1 GND P5_5 GND GND GND GND GND GND GND GN	IO48	99 101 103 105 107 111 113 115 117 119 121 122 123 125 127 129 131 133 135 137 139 141 143 145 151 153 155 157 159 161 163 163 165 171 173 175 175 175 177 179	100 102 104 106 108 110 1112 114 116 118 120 122 124 128 130 132 134 134 134 134 140 142 144 145 155 154 155 160 161 161 161 161 161 161 161 161 161	IO49 IO51 IO51 IO51 IO53 IO55 IO57 IO59 IO61 IO61 IO61 IO63 IO67 IO63 IO67 IO68 IO67 IO68 IO71 IO68 IO71 IO72 IO73 IO75 IO71 IO71 IO71 IO71 IO71 IO71 IO71 IO71	+3.3V +3.3V GND PS_2 GND PS_6 GND PS_6 GND PS_6 GND P6_2 GND P6_6 GND P6_8 GND GND F7_2 F7_4 GND F7_6 GND F7_6
+3.3V +3.3V GND PS_1 PS_3 GND PS_5 PS_7 GND GND GND GND GND GND GND GN	IO48 IO50 IO52 IO54 IO52 IO54 IO56 -3.3V IO58 IO56 -3.3V IO58 IO60 -3.3V IO60 -3.3V IO60 IO62/MDC IO64/INTR IO66/CRS IO66/CRS IO68/TX_CLK IO70/TX_EN IO70/	99 101 103 105 107 117 118 115 117 121 123 123 125 127 129 131 133 135 137 139 141 143 145 151 155 157 161 163 163 167 169 171 173 173 173 173 173 173 173 173 173	100 102 104 106 108 110 1112 114 116 118 122 124 125 128 130 132 131 134 141 144 145 150 152 154 166 168 170 172 174 176 177 177 177 178 178 180	IO49 IO51 IO51 IO53 IO55 IO57 +3.3V IO53 IO55 IO57 +3.3V IO59 IO61 IO61 H-3.3V IO61 IO61 IO62 IO67 IO68 IO67 IO69 IO67 IO69 IO67 IO69 IO67 IO69 IO67 IO68 IO67 IO68 IO67 IO68 IO67 IO68 IO68 IO68 IO68 IO68 IO68 IO68 IO68	+3.3V +3.3V GND P5_2 P5_4 GND P5_6 GND P6_2 GND P6_6 GND GND GND GND GND F6_7 GND GND GND GND GND GND GND GN
+3.3V +3.3V GND PS_1 PS_3 GND PS_5 PS_7 GND GND GND GND GND GND GND GN	IO48	99 101 103 105 107 109 111 113 122 123 125 127 129 131 133 135 137 141 143 145 147 149 151 153 155 157 159 161 163 165 167 171 173 175 177 179 181	100 102 104 106 108 110 1112 114 116 118 120 122 124 128 130 132 134 136 138 134 140 142 144 145 155 152 154 155 160 166 166 167 170 172 174 176 177 176 178 179 170 170 170 170 170 170 170 170 170 170	IO49 IO51 IO51 IO51 IO53 IO55 IO57 IO59 IO61 IO61 IO61 IO63 / MDIO IO63 / MDIO IO63 / MDIO IO65 / RESET IO67 / COL IO69 / GTX_CLK GND IO71 / TX_ER IO73 / TXD1 GND IO75 / TXD3 IO77 / TXD5 GND IO79 / TXD7 IO81 / RX_DV IO88 / RXD0 IO88 / RXD0 IO89 / RXD0 IO89 / RXD0 IO89 / RXD0 IO91 GND IDFF3-B / SCL2 DIFF4-A / Tx2 GND IDFF5-B / CTS2 GND IO93 / MOSIZ / QS2_0 IO93 / IO97 IO99 / IO97 IO99	+3.3V 43.3V GND PS_2 PS_4 GND PS_6 GND PS_8 GND GND GND GND GND GND GND GND
+3.3V +3.3V GND PS_1 PS_1 GND PS_5 GND GND GND GND GND GND GND GN	IO48	99 101 103 105 107 111 113 115 117 121 123 123 125 127 129 131 133 135 137 139 141 143 145 151 155 157 161 163 163 167 169 177 179 177 179 181 183	100 102 104 106 108 110 111 111 116 118 120 122 124 130 132 133 140 142 144 146 150 152 154 166 162 164 166 168 170 172 174 176 177 180 180 180 180 180 180 180 180 180 180	IO49 IO51 IO51 IO53 IO53 IO55 IO57 +3.3V IO59 IO69 IO61 +3.3V IOFF2-B GND IO63 / MDIO IO65 / IRESET IO66 / COL IO69 / GTX_CLK GND IO71 / TX_ER IO73 / TXD1 GND IO77 / TXD5 GND IO79 / TXD7 IO81 / RX_DV IO83 / RXD0 IO85 / RXD2 IO87 / RXD4 IO87 / RXD4 IO87 / TXD5 IO87 / RXD4 IO89 / RXD6 IO91 IO91 IO91 IO91 IO91 IO91 IO93 / MOSIZ / QS2_0 IO95 / QS2_2 GND IO97 IO99 IO99 IO99 IO99 IO99 IO99 IO99	+3.3V +3.3V FS_2 FS_4 GND FS_6 GND FS_6 GND FS_6 GND FS_8 GND GND FS_8 GND GND FS_7 GND GND FS_8 GND GND FS_8 GND FS_8 GND FS_8 GND GND FS_8 GND GND FS_8 GND GND FS_8 GND GND GND GND FS_8 GND GND GND FS_8 GND GND GND FS_8 GND GND GND FS_8 GND
+3.3V +3.3V GND PS_1 GND PS_5 PS_7 GND GND GND GND GND GND GND GN	IO48	99 101 103 105 107 111 113 122 123 125 127 129 131 133 135 137 139 141 143 145 151 153 155 157 159 161 163 165 177 179 181 183 185	100 102 104 106 108 110 111 111 116 118 120 122 124 126 128 130 131 132 134 140 142 144 145 150 152 154 166 168 170 172 174 176 177 177 176 177 177 177 177 177 177	IO49 IO51 IO51 IO53 IO53 IO55 IO57 +3.3V IO53 IO59 IO69 IO61 +3.3V IOFF2-B GND IO63 / MDIO IO65 / IRESET IO67 / COL IO69 / GTX_CLK GND IO71 / TX_ER IO73 / TXD1 GND IO77 / TXD5 GND IO77 / TXD5 GND IO79 / TXD7 IO89 / RXD4 IO89 / RXD6 IO99 / RXD4 IO89 / RXD6 IO99 IO85 / RXD2 IO87 / RXD4 IO89 / RXD6 IO99 IO89 / RXD6 IO99 IO99 / IO99 IO99	+3.3V +3.3V FS_2 FS_4 GND FS_6 GND FS_6 GND FS_6 GND FS_6 GND FS_6 GND FS_7 GND FS_6 GND GND
+3.3V +3.3V GND PS_1 PS_1 GND PS_5 GND GND GND GND GND GND GND GN	IO48	99 101 103 105 107 111 113 122 123 125 127 129 131 133 135 137 139 141 143 145 147 151 153 155 157 159 161 163 165 177 179 181 183 185 187 189 187 189 189 189 189 189 189 189 189 189 189	100 102 104 106 108 110 111 111 116 118 120 122 124 126 128 130 132 132 134 136 140 141 145 150 152 154 166 168 170 172 174 176 176 177 176 177 176 177 176 176 180 180 180 180 180 180 180 180 180 180	IO49 IO51 IO51 IO51 IO53 IO55 IO57 IO59 IO59 IO61 IO61 IO61 IO63 IO65 IO67 IO69 IO65 IO67 IO69 IO67 IO69 IO67 IO67 IO67 IO67 IO68 IO71 IO71 IO73 IO77 IO71 IO73 IO77 IO77 IO78 IO78 IO79 IO79 IO78 IO79 IO79 IO79 IO79 IO79 IO79 IO79 IO79	+3.3V +3.3V GND PS_2 GND PS_6 GND PS_6 GND PS_8 GND P6_2 GND P6_4 P6_6 GND GND GND GND P7_2 P7_4 GND P7_8 GND P8_2 P8_3 GND P4_5
+3.3V +3.3V GND PS_1 PS_3 GND PS_5 PS_7 GND GND GND GND GND GND GND GN	IO48 IO50 IO52 IO52 IO52 IO54 IO55 IO56 IO58	99 101 103 105 107 119 111 113 115 117 121 123 123 123 127 129 131 133 135 137 139 141 143 145 151 161 163 165 167 177 179 177 179 181 183 185 177 177 179 181 183 185 187 189 189 189 189 189 189 189 189 189 189	100 102 104 106 108 110 111 114 116 118 120 122 124 132 134 133 134 135 138 140 152 154 156 158 159 160 172 174 175 177 178 180 180 177 178 180 180 180 180 180 180 180 180 180 18	IO49	+3.3V 43.3V GND PS_2 PS_4 GND PS_6 GND PS_8 GND GND GND GND GND FG_2 GND FG_3 GND FG_6 GND FG_8 GND FG_8 GND FG_8 GND FG_8 FG_9 FG_9 FG_9 FG_9 FG_9 FG_9 FG_9 FG_9
+3.3V +3.3V GND PS_1 PS_1 GND PS_5 GND GND GND GND GND GND GND GN	IO48	99 101 103 105 107 111 113 122 123 125 127 129 131 133 135 137 139 141 143 145 147 151 153 155 157 159 161 163 165 177 179 181 183 185 187 189 187 189 189 189 189 189 189 189 189 189 189	100 102 104 106 108 110 111 111 116 118 120 122 124 126 128 130 132 132 134 136 140 141 145 150 152 154 166 168 170 172 174 176 176 177 176 177 176 177 176 176 180 180 180 180 180 180 180 180 180 180	IO49 IO51 IO51 IO51 IO53 IO55 IO57 IO59 IO59 IO61 IO61 IO61 IO63 IO65 IO67 IO69 IO65 IO67 IO69 IO67 IO69 IO67 IO67 IO67 IO67 IO68 IO71 IO71 IO73 IO77 IO71 IO73 IO77 IO77 IO78 IO78 IO79 IO79 IO78 IO79 IO79 IO79 IO79 IO79 IO79 IO79 IO79	+3.3V +3.3V GND PS_2 GND PS_6 GND PS_6 GND PS_8 GND P6_2 GND P6_4 P6_6 GND GND GND GND P7_2 P7_4 GND P7_6 P7_8 GND P8_2 P8_3 GND P8_2 P8_3 GND P8_2 P8_3 GND P8_5

FREE PINS (no NC): 0
FREE PINS (NC comprised): 42

 $Signals\ names\ as\ seen\ from\ the\ daughterboard\ if\ not\ specified\ otherwise\ (e.g.\ Tx\ is\ the\ output\ of\ FPGA's\ UART\ block)$

GND	Common ground		
+3.3V	Daughterboard 3.3V output (max 1.5 [A])		
+5V DTB	Daughterboard 5V output (LOW CURRENT CONSUMPTION IF RUNNING ON USB!)		
+5V MTB	Motherboard 5V output		
Txx	JTAG signals /JTAG_SEL : 1 = no extra chip, 0 = extra JTAG line used)		
RESET/	Daughterboard reset input (active low)		
POR/	Daughterboard PowerOnReset signal output (active low)		
DIFFx-A/B	Differential pair I/O preferred pins (can be used as standard I/O)		
IOx	Input / output pin		
TX / Rx	3.3V EUSART signals, any I/O for complementary (CTR, DTS)		
SCL / SDA	3.3V I2C signals		
SCLK / MOSI / MISO	3.3V SPI signals, any I/O as slave select		
QS	SPI dual/quad interface		
CANL / CANH	3.3V CAN signals (REQUIRES A TRANSCEIVER ON THE MOTHERBOARD !)		
TXD, RXD	Gigabit ethernet signals ((G)MII, MDC/MDIO, interrupt)		

- Jedec 4.20.11-1 link:

 Power pins, except pin 200 (added as GND), 199 and 1 as standard +3.3V
 69, 83, 120 and 163 (test pins) as standard I/Os
 30, 32, 164 and 166 (clock outputs) as standard I/Os
 Fixed JTAG signals, + RESET/ and POR/