HSFPX002 Edge Rate® Rugged High-Speed Connectors EASY REFERENCE for HSFPX00X Carrier Board

Connector 'A'

Pin No. (connector)	HSFPX002 Side HSFPX002 IO Pin Name	Artix-7 Pin No.	HSFPX00X Carrier Side Carrier pin description	Carrier Pin Location	Pin No.(Connector)	HSFPX002 Side HSFPX002 IO Pin name	Artix-7 Pin No.	HSFPX00X Carrier Side Carrier pin discription	Carrier Pin Location
1	EXT_VIN	-	VCC5V0	-	2	EXT_VIN	-	VCC5V0	-
3	GND	-	GND	-	4	GND	-	GND	-
5, 7	NC	-	N/A	-	6,8	NC	-	N/A	-
9	GND	-	GND	-	10	GND	-	GND	-
11, 13	NC	-	N/A	-	12, 14	NC	-	N/A	-
15	GND	-	GND	-	16	GND	-	GND	-
17, 19	NC	-	N/A	-	18, 20	NC	-	N/A	-
21	GND	-	GND	-	22	GND	-	GND	-
23, 25	NC	-	N/A	-	24, 26	NC	-	N/A	-
27	GND	-	GND	-	28	GND	-	GND	-
29, 31	NC	-	N/A	-	30, 32	NC	-	N/A	-
33	GND	-	GND	-	34	GND	-	GND	-
35, 37	NC	-	N/A	-	36, 38	NC	-	N/A	-
39	GND	-	GND	-	40	GND	-	GND	-
41, 43	NC	-	N/A	-	42, 44	NC	-	N/A	-
45	GND	-	GND	-	46	GND	-	GND	-
47, 49	NC	-	N/A	-	48, 50	NC	-	N/A	-
51	GND	-	GND	-	52	GND	-	GND	-
53, 55	NC	-	N/A	-	54, 56	NC	-	N/A	-
57	GND	-	GND	-	58	GND	-	GND	-
59, 61	NC	-	N/A	-	60, 62	NC	-	N/A	-
63	GND	-	GND	-	64	GND	-	GND	-
65	MGTAVTT	-	MGTAVTT	-	66	MGTAVTT	-	MGTAVTT	-
67	GND	-	GND	-	68	GND	-	GND	-
69	NC	-	N/A	-	70	NC	-	N/A	-
71	GND	-	GND	-	72	GND	-	GND	-
73	B216_GTP_CLK0_P	F11	PCIe_REFCLK_P	A13 (PCI X8)	74	B216_GTP_CLK1_P	F13	GTX_CLK_P	P13 (SMA Connector)
75	B216_GTP_CLK0_N	E11	PCIe_REFCLK_N	A14 (PCI X8)	76	B126_GTP_CLK1_N	E13	GTX_CLK_N	P14 (SMA Connector)
77	GND	-	GND	-	78	GND	-	GND	-
79	B216_GTP_RX3_P	D12	PCIe_RX0_P	B14 (PCI X8)	80	B216_GTP_TX3_P	D10	PCIe_TX0_P	A16 (PCI X8)
81	B216_GTP_RX3_N	C12	PCIe_RX0_N	B15 (PCI X8)	82	B216_GTP_TX3_N	C10	PCIe_TX0_N	A17 (PCI X8)
83	GND	-	GND	-	84	GND	-	GND	-
85	B216_GTP_RX2_P	B13	PCIe_RX1_P	B19 (PCI X8)	86	B216_GTP_TX2_P	B9	PCIe_TX1_P	A21 (PCI X8)
87	B216_GTP_RX2_N	A13	PCIe_RX1_N	B20 (PCI X8)	88	B216_GTP_TX2_N	A9	PCIe_TX1_N	A22 (PCI X8)
89	GND	-	GND	-	90	GND	-	GND	-
91	B216_GTP_RX1_P	D14	PCIe_RX2_P	B23 (PCI X8)	92	B216_GTP_TX1_P	D8	PCIe_TX2_P	A25 (PCI X8)
93	B216_GTP_RX1_N	C14	PCIe_RX2_N	B24 (PCI X8)	94	B216_GTP_TX1_N	C8	PCIe_TX2_N	A26 (PCI X8)
95	GND	-	GND	-	96	GND	-	GND	-
97	B216_GTP_RX0_P	B11	PCIe_RX3_P	B27 (PCI X8)	98	B216_GTP_TX0_P	B7	PCIe_TX3_P	A29 (PCI X8)
99	B216_GTP_RX0_N	A11	PCIe_RX3_N	B28 (PCI X8)	100	B216_GTP_TX0_N	A7	PCIe_TX3_N	A30 (PCI X8)
101	GND	-	GND	-	102	GND	-	GND	-
103	B213_GTP_CLK0_P	AA13	GTX_CLK1_P	P15 (SMA Connector)	104	B213_GTP_CLK1_P	AA11	GTX_CLK2_P	P17 (SMA Connector)
105	B213_GTP_CLK0_N	AB13	GTX_CLK1_N	P16 (SMA Connector)	106	B213_GTP_CLK1_N	AB11	GTX_CLK2_N	P18 (SMA Connector)
107	GND	-	GND	-	108	GND	-	GND	-
109	B213_GTP_RX3_P	AE11	PCIe_RX4_P	B33 (PCI X8)	110	B213_GTP_TX3_P	AE7	PCIe_RX4_P	A35 (PCI X8)
111	B213_GTP_RX3_N	AF11	PCIe_RX4_N	B34 (PCI X8)	112	B213_GTP_TX3_N	AF7	PCIe_RX4_N	A36 (PCI X8)
113	GND	-	GND	-	114	GND	-	GND	-
115	B213_GTP_RX2_P	AC14	PCIe_RX5_P	B37 (PCI X8)	116	B213_GTP_TX2_P	AC8	PCIe_RX5_P	A39 (PCI X8)
117	B213_GTP_RX2_N	AD14	PCIe_RX5_N	B38 (PCI X8)	118	B213_GTP_TX2_N	AD8	PCIe_RX5_N	A40 (PCI X8)
119	GND	-	GND	-	120	GND	-	GND	-
121	B213_GTP_RX1_P	AE13	PCIe_RX6_P	B41 (PCI X8)	122	B213_GTP_TX1_P	AE9	PCIe_RX6_P	A43 (PCI X8)
123	B213_GTP_RX1_N	AF13	PCIe_RX6_N	B42 (PCI X8)	124	B213_GTP_TX1_N	AF9	PCIe_RX6_N	A44 (PCI X8)
125	GND	-	GND	-	126	GND	-	GND	-
127	B213_GTP_RX0_P	AC12	PCIe_RX7_P	B45 (PCI X8)	128	B213_GTP_TX0_P	AC10	PCIe_RX7_P	A47 (PCI X8)
129	B213_GTP_RX0_N	AD12	PCIe_RX7_N	B46 (PCI X8)	130	B213_GTP_TX0_N	AD10	PCIe_RX7_N	A48 (PCI X8)
131	GND	-	GND	-	132	GND	-	GND	-
133-139	NC	-	N/A	-	134-140	NC	-	N/A	-
141	GND	-	GND	-	142	GND	-	GND	-
143	MGTAVCC	-	MGTAVCC	-	144	MGTAVCC	-	MGTAVCC	-
145	MGTAVCC	-	MGTAVCC	-	146	MGTAVCC	-	MGTAVCC	-
147	GND	-	GND	-	148	GND	-	GND	-
149	EXT_VIN	-	VCC5V0	-	150	EXT_VIN	-	VCC5V0	-

	GTP Bank 216		GTP Bank 213

<table>

	Connector 'B'								
	HSFPX002 Side		**HSFPX00X Carrier Side**			**HSFPX002 Side**		**HSFPX00X Carrier Side**	
Pin No. (connector)	HSFPX002 IO Pin Name	Artix-7 Pin No.	Carrier pin description	Carrier Pin Location	Pin No.(Connector)	HSFPX002 IO Pin name	Artix-7 Pin No.	Carrier pin discription	Carrier Pin Location
1	EXT_VIN	-	VCC5V0	-	2	EXT_VIN	-	VCC5V0	-
3	GND	-	GND	-	4	GND	-	GND	-
5	B15_IO_0_P	J25	FMC2_LA00_P	G6 (FMC 2)	6	B15_IO_2_P	K15	FMC2_LA02_P	H7 (FMC 2)
7	B15_IO_0_N	J26	FMC2_LA00_N	G7 (FMC 2)	8	B15_IO_2_N	J16	FMC2_LA02_N	H8 (FMC 2)
9	B15_IO_1_P	H26	FMC2_LA01_P	D8 (FMC 2)	10	B15_IO_3_P	K22	FMC2_LA03_P	G9 (FMC 2)
11	B15_IO_1_N	G26	FMC2_LA01_N	D9 (FMC 2)	12	B15_IO_3_N	K23	FMC2_LA03_N	G10 (FMC 2)
13	GND	-	GND	-	14	GND	-	GND	-
15	B15_IO_4_P	E25	FMC2_LA04_P	H10 (FMC 2)	16	B15_IO_6_P	M16	FMC2_LA06_P	C10 (FMC 2)
17	B15_IO_4_N	D25	FMC2_LA04_N	H11 (FMC 2)	18	B15_IO_6_N	M17	FMC2_LA06_N	C11 (FMC 2)
19	B15_IO_5_P	G24	FMC2_LA05_P	D11 (FMC 2)	20	B15_IO_7_P	K16	FMC2_LA07_P	H13 (FMC 2)
21	B15_IO_5_N	F24	FMC2_LA05_N	D12 (FMC 2)	22	B15_IO_7_N	K17	FMC2_LA07_N	H14 (FMC 2)
23	GND	-	GND	-	24	GND	-	GND	-
25	B15_IO_8_P	F23	FMC2_LA08_P	G12 (FMC 2)	26	B15_IO_10_P	L17	FMC2_LA10_P	C14 (FMC 2)
27	B15_IO_8_N	E23	FMC2_LA08_N	G13 (FMC 2)	28	B15_IO_10_N	L18	FMC2_LA10_N	C15 (FMC 2)
29	B15_IO_9_P	J24	FMC2_LA09_P	D14 (FMC 2)	30	B15_IO_11_P	K20	FMC2_LA11_P	H16 (FMC 2)
31	B15_IO_9_N	H24	FMC2_LA09_N	D15 (FMC 2)	32	B15_IO_11_N	J20	FMC2_LA11_N	H17 (FMC 2)
33	GND	-	GND	-	34	GND	-	GND	-
35	B15_IO_12_P	J23	FMC2_LA12_P	G15 (FMC 2)	36	B15_IO_14_P	E26	FMC2_LA14_P	C18 (FMC 2)
37	B15_IO_12_N	H23	FMC2_LA12_N	G16 (FMC 2)	38	B15_IO_14_N	D26	FMC2_LA14_N	C19 (FMC 2)
39	B15_IO_13_P	K21	FMC2_LA13_P	D17 (FMC 2)	40	B15_IO_15_P	G25	FMC2_LA15_P	H19 (FMC 2)
41	B15_IO_13_N	J21	FMC2_LA13_N	D18 (FMC 2)	42	B15_IO_15_N	F25	FMC2_LA15_N	H20 (FMC 2)
43	GND	-	GND	-	44	GND	-	GND	-
45	B15_IO_16_P	J18	FMC2_LA16_P	G18 (FMC 2)	46	B15_IO_18_P	G20	FMC2_LA18_P	C22 (FMC 2)
47	B15_IO_16_N	H18	FMC2_LA16_N	G19 (FMC 2)	48	B15_IO_18_N	G21	FMC2_LA18_N	C23 (FMC 2)
49	B15_IO_17_P	M15	FMC2_LA17_P	D20 (FMC 2)	50	B15_IO_19_P	J19	FMC2_LA19_P	H22 (FMC 2)
51	B15_IO_17_N	L15	FMC2_LA17_N	D21 (FMC 2)	52	B15_IO_19_N	H19	FMC2_LA19_N	H23 (FMC 2)
53	GND	-	GND	-	54	GND	-	GND	-
55	B15_IO_20_P	M14	FMC2_LA20_P	G21 (FMC 2)	56	B15_IO_22_P	G22	FMC2_LA22_P	G24 (FMC 2)
57	B15_IO_20_N	L14	FMC2_LA20_N	G22 (FMC 2)	58	B15_IO_22_N	F22	FMC2_LA22_N	G25 (FMC 2)
59	B15_IO_21_P	J14	FMC2_LA21_P	H25 (FMC 2)	60	B15_IO_23_P	H21	FMC2_LA23_P	D23 (FMC 2)
61	B15_IO_21_N	J15	FMC2_LA21_N	H26 (FMC 2)	62	B15_IO_23_N	H22	FMC2_LA23_N	D24 (FMC 2)
63	GND	-	GND	-	64	GND	-	GND	-
65	B15_VADJ	-	VADJ2	-	66	B15_VADJ	-	VADJ2	-
67	-	-	-	-	68	-	-	-	-
69	B16_VADJ	-	VADJ2	-	70	B16_VADJ	-	VADJ2	-
71	GND	-	GND	-	72	GND	-	GND	-
73	B16_IO_0_P	C26	FMC2_LA24_P	H28 (FMC 2)	74	B16_IO_2_P	B20	FMC2_LA26_P	D26 (FMC 2)
75	B16_IO_0_N	B26	FMC2_LA24_N	H29 (FMC 2)	76	B16_IO_2_N	A20	FMC2_LA26_N	D27 (FMC 2)
77	B16_IO_1_P	B25	FMC2_LA25_P	G27 (FMC 2)	78	B16_IO_3_P	G19	FMC2_LA27_P	C26 (FMC 2)
79	B16_IO_1_N	A25	FMC2_LA25_N	G28 (FMC 2)	80	B16_IO_3_N	F20	FMC2_LA27_N	C27 (FMC 2)
81	GND	-	GND	-	82	GND	-	GND	-
83	B16_IO_4_P	C24	FMC2_LA28_P	H31 (FMC 2)	84	B16_IO_6_P	E20	FMC2_LA30_P	H34 (FMC 2)
85	B16_IO_4_N	B24	FMC2_LA28_N	H32 (FMC 2)	86	B16_IO_6_N	D20	FMC2_LA30_N	H35 (FMC 2)
87	B16_IO_5_P	A23	FMC2_LA29_P	G30 (FMC 2)	88	B16_IO_7_P	F18	FMC2_LA31_P	G33 (FMC 2)
89	B16_IO_5_N	A24	FMC2_LA29_N	G31 (FMC 2)	90	B16_IO_7_N	F19	FMC2_LA31_N	G34 (FMC 2)
91	GND	-	GND	-	92	GND	-	GND	-
93	B16_IO_8_P	B22	FMC2_LA32_P	H37 (FMC 2)	94	B16_IO_10_P	G17	FMC2_HA00_P	F4 (FMC 2)
95	B16_IO_8_N	A22	FMC2_LA32_N	H38 (FMC 2)	96	B16_IO_10_N	F17	FMC2_HA00_N	F5 (FMC 2)
97	B16_IO_9_P	C21	FMC2_LA33_P	G36 (FMC 2)	98	B16_IO_11_P	D18	FMC2_HA01_P	E2 (FMC 2)
99	B16_IO_9_N	B21	FMC2_LA33_n	G37 (FMC 2)	100	B16_IO_11_N	C18	FMC2_HA02_N	E3 (FMC 2)
101	GND	-	GND	-	102	GND	-	GND	-
103	B16_IO_12_P	C22	FMC2_HA02_P	K7 (FMC 2)	104	B16_IO_14_P	H16	FMC2_HA04_P	F7 (FMC 2)
105	B16_IO_12_N	C23	FMC2_HA02_N	K8 (FMC 2)	106	B16_IO_14_N	G16	FMC2_HA04_N	F8 (FMC 2)
107	B16_IO_13_P	D19	FMC2_HA03_P	J6 (FMC 2)	108	B16_IO_15_P	E17	FMC2_HA05_P	E6 (FMC 2)
109	B16_IO_13_N	C19	FMC2_HA03_N	J7 (FMC 2)	110	B16_IO_15_N	E18	FMC2_HA05_N	E7 (FMC 2)
111	GND	-	GND	-	112	GND	-	GND	-
113	B16_IO_16_P	E21	FMC2_HA06_P	K10 (FMC 2)	114	B16_IO_18_P	G15	FMC2_HA08_P	F10 (FMC 2)
115	B16_IO_16_N	D21	FMC2_HA06_N	K11 (FMC 2)	116	B16_IO_18_N	F15	FMC2_HA08_N	F11 (FMC 2)
117	B16_IO_17_P	D23	FMC2_HA07_P	J9 (FMC 2)	118	B16_IO_19_P	E16	FMC2_HA09_P	E9 (FMC 2)
119	B16_IO_17_N	D24	FMC2_HA07_N	J10 (FMC 2)	120	B16_IO_19_N	D16	FMC2_HA09_N	E10 (FMC 2)
121	GND	-	GND	-	122	GND	-	GND	-
123	B16_IO_20_P	B19	FMC2_HA10_P	K13 (FMC 2)	124	B16_IO_22_P	H14	FMC2_HA12_P	F13 (FMC 2)
125	B16_IO_20_N	A19	FMC2_HA10_N	K14 (FMC 2)	126	B16_IO_22_N	H15	FMC2_HA12_N	F14 (FMC 2)
127	B16_IO_21_P	A17	FMC2_HA11_P	J12 (FMC 2)	128	B16_IO_23_P	C17	FMC2_HA13_P	E12 (FMC 2)
129	B16_IO_21_N	A18	FMC2_HA11_N	J13 (FMC 2)	130	B16_IO_23_N	B17	FMC2_HA13_N	E13 (FMC 2)
131	GND	-	GND	-	132	GND	-	GND	-
133	TDI	H10	TDI_FPGA		134	TDO	J10	TDO_FPGA_TDI_FMC1	-
135	TMS	H11	TMS_FPGA		136	TCK	H12	TCK_FPGA	-
137	VCC_BATT	G14	VCC_BATT	-	138	V_P	N12	V_P	Header P6
139	PROG_B	AE16	CON_PROG_B		140	V_N	P11	V_N	Header P6
141	GND	-	GND	-	142	GND	-	GND	-
143	VCC3V3	-	M_VCC3V3	-	144	VCC3V3	-	M_VCC3V3	-
145	VCC3V3	-	M_VCC3V3	-	146	VCC3V3	-	M_VCC3V3	-
147	GND	-	GND	-	148	GND	-	GND	-
149	EXT_VIN	-	VCC5V0	-	150	EXT_VIN	-	VCC5V0	-

</table>

Artix 7 - Bank 15

Artix 7 - Bank 16

	Connector 'C'							
	HSFPX002 Side		**HSFPX00X Carrier Side**			**HSFPX002 Side**		**HSFPX00X Carrier Side**	
Pin No. (connector)	HSFPX002 IO Pin Name	Artix-7 Pin No.	Carrier pin description	Carrier Pin Location	Pin No.(Connector)	HSFPX002 IO Pin name	Artix-7 Pin No.	Carrier pin discription	Carrier Pin Location
1	EXT_VIN	-	VCC5V0	-	2	EXT_VIN	-	VCC5V0	-
3	GND	-	GND	-	4	GND	-	GND	-
5, 7	NC	-	N/A	-	6, 8	NC	-	N/A	-
9	NC	-	N/A	-	10	USB_D_P	23 (FT 601)	USB_D_P	A6 (USB - C)
11	NC	-	N/A	-	12	USB_D_N	25 (FT 601)	USB_D_N	A7 (USB - C)
13	GND	-	GND	-	14	GND	-	GND	-
15	NC	-	N/A	-	16	USB_RX_P	35 (FT 601)	USB_RX_P	B11 (USB - C)
17	NC	-	N/A	-	18	USB_RX_N	34 (FT 601)	USB_RX_N	B10 (USB - C)
19	NC	-	N/A	-	20	USB_TX_P	32 (FT 601)	USB_TX_P	A2 (USB - C)
21	NC	-	N/A	-	22	USB_TX_N	31 (FT 601)	USB_TX_N	A3 (USB - C)
23	GND	-	GND	-	24	GND	-	GND	-
25 - 61	NC	-	N/A	-	26- 62	NC	-	N/A	-
63	GND	-	GND	-	64	GND	-	GND	-
65	NC	-	N/A	-	66	NC	-	N/A	-
67	GND	-	GND	-	68	GND	-	GND	-
69	NC	-	N/A	-	70	NC	-	N/A	-
71	GND	-	GND	-	72	GND	-	GND	-
73 - 79	NC	-	N/A	-	74 - 80	NC	-	N/A	-
81	GND	-	GND	-	82	GND	-	GND	-
83 - 89	NC	-	N/A	-	84 - 90	NC	-	N/A	-
91	GND	-	GND	-	92	GND	-	GND	-
93 - 98	NC	-	N/A	-	94 - 100	NC	-	N/A	-
101	GND	-	GND	-	102	GND	-	GND	-
103 - 109	NC	-	N/A	-	104 - 110	NC	-	N/A	-
111	GND	-	GND	-	112	GND	-	GND	-
113 - 119	NC	-	N/A	-	114 - 120	NC	-	N/A	-
121	GND	-	GND	-	122	GND	-	GND	-
123 - 129	NC	-	N/A	-	124 - 130	NC	-	N/A	-
131	GND	-	GND	-	132	GND	-	GND	-
133 - 139	NC	-	N/A	-	134 - 140	NC	-	N/A	-
141	GND	-	GND	-	142	GND	-	GND	-
143, 145	NC	-	N/A	-	144, 146	NC	-	N/A	-
147	GND	-	GND	-	148	GND	-	GND	-
149	EXT_VIN	-	VCC5V0	-	150	EXT_VIN	-	VCC5V0	-

	FTDI FT601

Connector 'D'

Pin No. (connector)	HSFPX002 IO Pin Name	Artix-7 Pin No.	Carrier pin description	Carrier Pin Location	Pin No.(Connector)	HSFPX002 IO Pin name	Artix-7 Pin No.	Carrier pin discription	Carrier Pin Location
1	EXT_VIN	-	VCC5V0	-	2	EXT_VIN	-	VCC5V0	-
3	GND	-	GND	-	4	GND	-	GND	-
5	B12_IO_0_P	AA20	FMC1_LA00_P	G6 (FMC 1)	6	B12_IO_2_P	AD23	FMC1_LA02_P	H7 (FMC 1)
7	B12_IO_0_N	AB20	FMC1_LA00_N	G7 (FMC 1)	8	B12_IO_2_N	AD24	FMC1_LA02_N	H8 (FMC 1)
9	B12_IO_1_P	AB21	FMC1_LA01_P	D8 (FMC 1)	10	B12_IO_3_P	AD25	FMC1_LA03_P	G9 (FMC 1)
11	B12_IO_1_N	AC21	FMC1_LA01_N	D9 (FMC 1)	12	B12_IO_3_N	AD26	FMC1_LA03_N	G10 (FMC 1)
13	GND	-	GND	-	14	GND	-	GND	-
15	B12_IO_4_P	AE23	FMC1_LA04_P	H10 (FMC 1)	16	B12_IO_6_P	AE25	FMC1_LA06_P	C10 (FMC 1)
17	B12_IO_4_N	AF23	FMC1_LA04_N	H11 (FMC 1)	18	B12_IO_6_N	AE26	FMC1_LA06_N	C11 (FMC 1)
19	B12_IO_5_P	AA19	FMC1_LA05_P	D11 (FMC 1)	20	B12_IO_7_P	AC22	FMC1_LA07_P	H13 (FMC 1)
21	B12_IO_5_N	AB19	FMC1_LA05_N	D12 (FMC 1)	22	B12_IO_7_N	AC23	FMC1_LA07_N	H14 (FMC 1)
23	GND	-	GND	-	24	GND	-	GND	-
25	B12_IO_8_P	AE17	FMC1_LA08_P	G12 (FMC 1)	26	B12_IO_10_P	AF19	FMC1_LA10_P	C14 (FMC 1)
27	B12_IO_8_N	AF17	FMC1_LA08_N	G13 (FMC 1)	28	B12_IO_10_N	AF20	FMC1_LA10_N	C15 (FMC 1)
29	B12_IO_9_P	Y18	FMC1_LA09_P	D14 (FMC 1)	30	B12_IO_11_P	AF24	FMC1_LA11_P	H16 (FMC 1)
31	B12_IO_9_N	AA18	FMC1_LA09_N	D15 (FMC 1)	32	B12_IO_11_N	AF25	FMC1_LA11_N	H17 (FMC 1)
33	GND	-	GND	-	34	GND	-	GND	-
35	B12_IO_12_P	Y16	FMC1_LA12_P	G15 (FMC 1)	36	B12_IO_14_P	AE22	FMC1_LA14_P	C18 (FMC 1)
37	B12_IO_12_N	Y17	FMC1_LA12_N	G16 (FMC 1)	38	B12_IO_14_N	AF22	FMC1_LA14_N	C19 (FMC 1)
39	B12_IO_13_P	AC18	FMC1_LA13_P	D17 (FMC 1)	40	B12_IO_15_P	AD21	FMC1_LA15_P	H19 (FMC 1)
41	B12_IO_13_N	AD18	FMC1_LA13_N	D18 (FMC 1)	42	B12_IO_15_N	AE21	FMC1_LA15_N	H20 (FMC 1)
43	GND	-	GND	-	44	GND	-	GND	-
45	B12_IO_16_P	AB16	FMC1_LA16_P	G18 (FMC 1)	46	B12_IO_18_P	AD20	FMC1_LA18_P	C22 (FMC 1)
47	B12_IO_16_N	AC16	FMC1_LA16_N	G19 (FMC 1)	48	B12_IO_18_N	AE20	FMC1_LA18_N	C23 (FMC 1)
49	B12_IO_17_P	AC17	FMC1_LA17_P	D20 (FMC 1)	50	B12_IO_19_P	AC19	FMC1_LA19_P	H22 (FMC 1)
51	B12_IO_17_N	AD17	FMC1_LA17_N	D21 (FMC 1)	52	B12_IO_19_N	AD19	FMC1_LA19_N	H23 (FMC 1)
53	GND	-	GND	-	54	GND	-	GND	-
55	B12_IO_20_P	Y15	FMC1_LA20_P	G21 (FMC 1)	56	B12_IO_22_P	AE18	FMC1_LA22_P	G24 (FMC 1)
57	B12_IO_20_N	AA15	FMC1_LA20_N	G22 (FMC 1)	58	B12_IO_22_N	AF18	FMC1_LA22_N	G25 (FMC 1)
59	B12_IO_21_P	W14	FMC1_LA21_P	H25 (FMC 1)	60	B12_IO_23_P	AA17	FMC1_LA23_P	D23 (FMC 1)
61	B12_IO_21_N	W15	FMC1_LA21_N	H26 (FMC 1)	62	B12_IO_23_N	AB17	FMC1_LA23_N	D24 (FMC 1)
63	GND	-	GND	-	64	GND	-	GND	-
65	B15_VADJ	-	VADJ1	-	66	B15_VADJ	-	VADJ2	-
67	GND	-	GND	-	68	GND	-	GND	-
69	B16_VADJ	-	FMC_VIO_B_M2C_1	-	70	B16_VADJ	-	FMC_VIO_M2C_1	-
71	GND	-	GND	-	72	GND	-	GND	-
73	B13_IO_0_P	AB24	FMC1_HB00_P	K25 (FMC 1)	74	B13_IO_2_P	AB26	FMC1_HB02_P	F22 (FMC 1)
75	B13_IO_0_N	AC24	FMC1_HB00_N	K26 (FMC 1)	76	B13_IO_2_N	AC26	FMC1_HB02_N	F23 (FMC 1)
77	B13_IO_1_P	T19	FMC1_HB01_P	J24 (FMC 1)	78	B13_IO_3_P	W25	FMC1_HB03_P	E21 (FMC 1)
79	B13_IO_1_N	U19	FMC1_HB01_N	J25 (FMC 1)	80	B13_IO_3_N	Y26	FMC1_HB03_N	E22 (FMC 1)
81	GND	-	GND	-	82	GND	-	GND	-
83	B13_IO_4_P	Y25	FMC1_HB04_P	F25 (FMC 1)	84	B13_IO_6_P	AA24	FMC1_HB06_P	K28 (FMC 1)
85	B13_IO_4_N	AA25	FMC1_HB04_N	F26 (FMC 1)	86	B13_IO_6_N	AB25	FMC1_HB06_N	K29 (FMC 1)
87	B13_IO_5_P	V19	FMC1_HB05_P	E24 (FMC 1)	88	B13_IO_7_P	AA22	FMC1_HB07_P	J27 (FMC 1)
89	B13_IO_5_N	W19	FMC1_HB05_N	E25 (FMC 1)	90	B13_IO_7_N	AA23	FMC1_HB07_N	J28 (FMC 1)
91	GND	-	GND	-	92	GND	-	GND	-
93	B13_IO_8_P	T17	FMC1_HB08_P	F28 (FMC 1)	94	B13_IO_10_P	Y22	FMC1_HB10_P	K31 (FMC 1)
95	B13_IO_8_N	T18	FMC1_HB08_N	F29 (FMC 1)	96	B13_IO_10_N	Y23	FMC1_HB10_N	K32 (FMC 1)
97	B13_IO_9_P	V26	FMC1_HB09_P	E27 (FMC 1)	98	B13_IO_11_P	W20	FMC1_HB11_P	J30 (FMC 1)
99	B13_IO_9_N	W26	FMC1_HB09_N	E28 (FMC 1)	100	B13_IO_11_N	Y20	FMC1_HB11_N	J31 (FMC 1)
101	GND	-	GND	-	102	GND	-	GND	-
103	B13_IO_12_P	U25	FMC1_HB12_P	F31 (FMC 1)	104	B13_IO_14_P	W21	FMC1_HB14_P	K34 (FMC 1)
105	B13_IO_12_N	U26	FMC1_HB12_N	F32 (FMC 1)	106	B13_IO_14_N	Y21	FMC1_HB14_N	K35 (FMC 1)
107	B13_IO_13_P	V23	FMC1_HB13_P	E30 (FMC 1)	108	B13_IO_15_P	V18	FMC1_HB15_P	J33 (FMC 1)
109	B13_IO_13_N	W23	FMC1_HB13_N	E31 (FMC 1)	110	B13_IO_15_N	W18	FMC1_HB15_N	J34 (FMC 1)
111	GND	-	GND	-	112	GND	-	GND	-
113	B13_IO_16_P	U21	FMC1_HB16_P	F34 (FMC 1)	114	B13_IO_18_P	V16	FMC1_HB18_P	J36 (FMC 1)
115	B13_IO_16_N	V21	FMC1_HB16_N	F35 (FMC 1)	116	B13_IO_18_N	V17	FMC1_HB18_N	J37 (FMC 1)
117	B13_IO_17_P	U15	FMC1_HB17_P	K37 (FMC 1)	118	B13_IO_19_P	U14	FMC1_HB19_P	E33 (FMC 1)
119	B13_IO_17_N	U16	FMC1_HB17_N	K38 (FMC 1)	120	B13_IO_19_N	V14	FMC1_HB19_N	E34 (FMC 1)
121	GND	-	GND	-	122	GND	-	GND	-
123	B13_IO_20_P	U22	FMC1_HB20_P	F37 (FMC 1)	124	B13_IO_22_P	T14	PG_ALL	-
125	B13_IO_20_N	V22	FMC1_HB20_N	F38 (FMC 1)	126	B13_IO_22_N	T15	PCIe_PERST_B	-
127	B13_IO_21_P	V24	FPGA_SDA	C31 (FMC 1)	128	B13_IO_23_P	T20	FAN_PWM	-
129	B13_IO_21_N	W24	FPGA_SCL	C30 (FMC 1)	130	B13_IO_23_N	U20	TACHO	-
131 -139	NC	-	N/A	-	132-140	NC	-	N/A	-
141	GND	-	GND	-	142	GND	-	GND	-
143	VCC1V8	-	M_VCC1V8	-	144	VCC1V8	-	M_VCC1V8	-
145	VCC1V8	-	M_VCC1V8	-	146	VCC1V8	-	M_VCC1V8	-
147	GND	-	GND	-	148	GND	-	GND	-
149	EXT_VIN	-	VCC5V0	-	150	EXT_VIN	-	VCC5V0	-

Legend:
- Artix 7 - Bank 12
- Artix 7 - Bank 13