

**Product Name:** Cont's ZX181-HPC FMC Vita 57.1 breakout adapter – passive FPGA Mezzanine Card HPC Mates with: Xilinx FPGA development systems Virtex 6 Virtex 7 connecting daughter board to Host ZX181 HPC FMC breakout adapter mates with the following Any and all FMC VITA 57.1 compliant design. Samtec Molex SEARAY™ VITA 57 Connectors SEAM SADL SEAMP SEAR SEAMI SEAC FMC HPC SEAF-040-08.0-L-10-2-A SEAF-040-08-L-10-2-A Samtec PN **VITA PN** Description **Molex PN** SEAFP-40 SEAMP-040 SEAMI-040 SEAR-040-10-10- SEAM-040 All listed Samtec Molex FMC connectors listed, table below: ASP-127796-01 CC-LPC-10L 45971-4307 female ASP-134485-01 CC-HPC-10L 45971-4317 female ZX181-HPC 0402 SMD shunt footprints grid 45971-4315 ASP-134486-01 CC-HPC-10 female matrix 45971-4305 ASP-134603-01 CC-LPC-10 female Ground: The GND access points are offered by 2 onboard GND test points interfacing with test equipment, host and target. It is connected to the module inner GND planes and top & bottom GND fills. Access signals: ZX181-HPC provides access to all Vita 57.1 signals as well as Vita 57.4 (with exception of no access to signals on Columns L, M, Z, Y) via onboard 0402 SMD footprint package. Table below lists the Vita 57.1 signals, to be used as reference accessing ZX181-HPC FMC Vita 57.1 FMC test module breakout adapter.

П	Pin	Vita 57.1 - HPC									
ı		K	J	Н	G	F	Е	D	С	В	Α
П	1	VREF_B_M2C	GND	VREF_A_M2C	GND	PG_M2C	GND	PG_C2M	GND	CLK_DIR	GND
П	2	GND	CLK3_BIDIR_P	PRSNT_M2C_L	CLK1_M2C_P	GND	HA01_P_CC	GND	DP0_C2M_P	GND	DP1_M2C_P
П	3	GND	CLK3_BIDIR_N	GND	CLK1_M2C_N	GND	HA01_N_CC	GND	DP0_C2M_N	GND	DP1_M2C_N
П	4	CLK2_BIDIR_P	GND	CLK0_M2C_P	GND	HA00_P_CC	GND	GBTCLK0_M2C_P	GND	DP9_M2C_P	GND
П	5	CLK2_BIDIR_N	GND	CLK0_M2C_N	GND	HA00_N_CC	GND	GBTCLK0_M2C_N	GND	DP9_M2C_N	GND
_	6	GND	HA03_P	GND	LA00_P_CC	GND	HA05_P	GND	DP0_M2C_P	GND	DP2_M2C_P
1	7	HA02_P	HA03_N	LA02_P	LA00_N_CC	HA04_P	HA05_N	GND	DP0_M2C_N	GND	DP2_M2C_N
П	8	HA02_N	GND	LA02_N	GND	HA04_N	GND	LA01_P_CC	GND	DP8_M2C_P	GND
П	9	GND	HA07_P	GND	LA03_P	GND	HA09_P	LA01_N_CC	GND	DP8_M2C_N	GND
П	10	HA06_P	HA07_N	LA04_P	LA03_N	HA08_P	HA09_N	GND	LA06_P	GND	DP3_M2C_P
П	11	HA06_N	GND	LA04_N	GND	HA08_N	GND	LA05_P	LA06_N	GND	DP3_M2C_N
П	12	GND	HA11_P	GND	LA08_P	GND	HA13_P	LA05_N	GND	DP7_M2C_P	GND
	13	HA10_P	HA11_N	LA07_P	LA08_N	HA12_P	HA13_N	GND	GND	DP7_M2C_N	GND
	14	HA10_N	GND	LA07_N	GND	HA12_N	GND	LA09_P	LA10_P	GND	DP4_M2C_P
П	15	GND	HA14_P	GND	LA12_P	GND	HA16_P	LA09_N	LA10_N	GND	DP4_M2C_N
П	16	HA17-P-CC	HA14_N	LA11_P	LA12_N	HA15_P	HA16_N	GND	GND	DP6_M2C_P	GND
П	17	HA17-N-CC	GND	LA11_N	GND	HA15_N	GND	LA13_P	GND	DP6_M2C_N	GND
П	18	GND	HA18_P	GND	LA16_P	GND	HA20_P	LA13_N	LA14_P	GND	DP5_M2C_P
П	19	HA21_P	HA18_N	LA15_P	LA16_N	HA19_P	HA20_N	GND	LA14_N	GND	DP5_M2C_N
П	20	HA21_N	GND	LA15_N	GND	HA19_N	GND	LA17_P_CC	GND	GBTCLK1_M2C_P	GND
1	21	GND	HA22_P	GND	LA20_P	GND	HB03_P	LA17_N_CC	GND	GBTCLK1_M2C_N	GND
П	22	HA23_P	HA22_N	LA19_P	LA20_N	HB02_P	HB03_N	GND	LA18_P_CC	GND	DP1_C2M_P
П	23	HA23_N	GND	LA19_N	GND	HB02_N	GND	LA23_P	LA18_N_CC	GND	DP1_C2M_N
П	24	GND	HB01_P	GND	LA22_P	GND	HB05_P	LA23_N	GND	DP9_C2M_P	GND
П	25	HB00-P-CC	HB01_N	LA21_P	LA22_N	HB04_P	HB05_N	GND	GND	DP9_C2M_N	GND
П	26	HB00-N-CC	GND	LA21_N	GND	HB04_N	GND	LA26_P	LA27_P	GND	DP2_C2M_P
П	27	GND	HB07_P	GND	LA25_P	GND	HB09_P	LA26_N	LA27_N	GND	DP2_C2M_N
П	28	HB06-P-CC	HB07_N	LA24_P	LA25_N	HB08_P	HB09_N	GND	GND	DP8_C2M_P	GND
П	29 30	HB06-N-CC GND	GND HB11 P	LA24_N GND	GND LA29 P	HB08_N GND	GND HB13 P	TCK TDI	GND SCL	DP8_C2M_N GND	GND DP3 C2M P
П	31	HB10-P	HB11_P	LA28 P	LA29_P LA29_N	HB12 P	HB13_P	TDO	SDA	GND	DP3_C2M_P DP3 C2M N
П	32	HB10-P	GND	LAZO_P LAZO N	GND	HB12_P	GND	3P3VAUX	GND	DP7 C2M P	GND
П	33	GND	HB15 P	GND	LA31 P	GND	HB19 P	TMS	GND	DP7_C2M_P	GND
П	34	HB14-P	HB15_F	LA30 P	LA31_F LA31_N	HB16 P	HB19_F	TRST L	GA0	GND	DP4 C2M P
П	35	HB14-N	GND	LA30_P LA30_N	GND	HB16 N	GND	GA1	12P0V	GND	DP4_C2M_P
4	36	GND	HB18 P	GND	LA33 P	GND	HB21 P	3P3V	GND	DP6 C2M P	GND
	37	HB17 P CC	HB18 N	LA32 P	LA33_F LA33_N	HB20 P	HB21 N	GND	12P0V	DP6_C2M_P	GND
	38	HB17 N CC	GND	LA32 N	GND	HB20 N	GND	3P3V	GND	GND	DP5 C2M P
	39	GND	VIO B M2C	GND	VADJ	GND	VADJ	GND	3P3V	GND	DP5 C2M N
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