

Product Name:

Cont's ZX180V-HSPC FMC+ HSPC Vita 57.4 breakout adapter – passive FPGA Mezzanine Card

HSPC

Ground:

ZX180V-HSPC is breakout adapter – test module, offering VITA 57.4 signals. It enables user to implement design changes (cut signal path), or simply access the Vita 57.4 signals for test and measurement purpose.

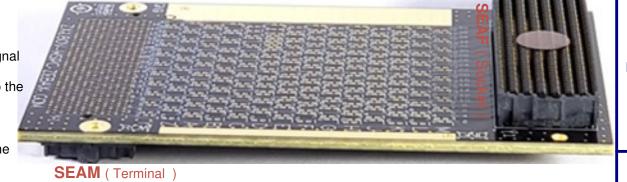
The GND access points are offered by 2 onboard GND test points interfacing with test equipment, host and target. It is connected to the

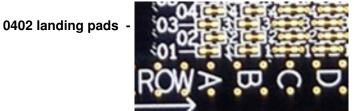
module inner GND planes and top & bottom GND fills.

Access signals:

ZX180V-HSPC provides access to all Vita 57.4 signals, excluding the preserved Ground signals. It can interface with Vita 57.1 on the SEAF (Socket) connector side by HPC or LPC connector series. HPC: High pin count - 10x40 LPC: Low pin count - 4x40.

Table below lists the Vita 57.4 signals, Vita 57.1 reference signals (HPC, LPC) signal group are listed in reference to Vita 57.1.





Vita 57.4 (FMC+ - HSPC) 14 x 40														
	Vita 57.1 (FMC - HPC) 10x40													
					Vita 57.1 (FMC - LPC) 4x40									
					VIII 0111 (1 III 0 - L1 0) 7 A 4 0									
Pin	M	L	K	J	Н	G	F	E	D	С	В	Α	Z	Υ
1	GND	RES1	VREF_B_M2C	GND	VREF_A_M2C	GND	PG_M2C	GND	PG_C2M	GND	CLK_DIR	GND	HBPC_PRSNT_M2C_L	GND
2	DP23_M2C_P	GND	GND	CLK3_BIDIR_P	PRSNT_M2C_L	CLK1_M2C_P	GND	HA01_P_CC	GND	DP0_C2M_P	GND	DP1_M2C_P	GND	DP23_C2M_P
3	DP23_M2C_N	GND	GND	CLK3_BIDIR_N	GND	CLK1_M2C_N	GND	HA01_N_CC	GND	DP0_C2M_N	GND	DP1_M2C_N	GND	DP23_C2M_N
4	GND	GBTCLK4_M2C_P	CLK2_BIDIR_P	GND	CLK0_M2C_P	GND	HA00_P_CC	GND	GBTCLK0_M2C_P	GND	DP9_M2C_P	GND	DP22_C2M_P	GND
5	GND	GBTCLK4_M2C_N	CLK2_BIDIR_N	GND	CLK0_M2C_N	GND	HA00_N_CC	GND	GBTCLK0_M2C_N	GND	DP9_M2C_N	GND	DP22_C2M_N	GND
6	DP22_M2C_P	GND	GND	HA03_P	GND	LA00_P_CC	GND	HA05_P	GND	DP0_M2C_P	GND	DP2_M2C_P	GND	DP21_C2M_P
7	DP22_M2C_N	GND	HA02_P	HA03_N	LA02_P	LA00_N_CC	HA04_P	HA05_N	GND	DP0_M2C_N	GND	DP2_M2C_N	GND	DP21_C2M_N
8	GND	GBTCLK3_M2C_P	HA02_N	GND	LA02_N	GND	HA04_N	GND	LA01_P_CC	GND	DP8_M2C_P	GND	DP20_C2M_P	GND
9	GND	GBTCLK3_M2C_N	GND	HA07_P	GND	LA03_P	GND	HA09_P	LA01_N_CC	GND	DP8_M2C_N	GND	DP20_C2M_N	GND
10	DP21_M2C_P	GND	HA06_P	HA07_N	LA04_P	LA03_N	HA08_P	HA09_N	GND	LA06_P	GND	DP3_M2C_P	GND	DP10_M2C_P
11	DP21_M2C_N	GND	HA06_N	GND	LA04_N	GND	HA08_N	GND	LA05_P	LA06_N	GND	DP3_M2C_N	GND	DP10_M2C_N
12	GND	GBTCLK2_M2C_P	GND	HA11_P	GND	LA08_P	GND	HA13_P	LA05_N	GND	DP7_M2C_P	GND	DP11_M2C_P	GND
13	GND	GBTCLK2_M2C_N	HA10_P	HA11_N	LA07_P	LA08_N	HA12_P	HA13_N	GND	GND	DP7_M2C_N	GND	DP11_M2C_N	GND
14	DP20_M2C_P	GND	HA10_N	GND	LA07_N	GND	HA12_N	GND	LA09_P	LA10_P	GND	DP4_M2C_P	GND	DP12_M2C_P
15	DP20_M2C_N	GND	GND	HA14_P	GND	LA12_P	GND	HA16_P	LA09_N	LA10_N	GND	DP4_M2C_N	GND	DP12_M2C_N
16	GND	SYNC_C2M_P	HA17-P-CC	HA14_N	LA11_P	LA12_N	HA15_P	HA16_N	GND	GND	DP6_M2C_P	GND	DP13_M2C_P	GND
17	GND	SYNC_C2M_N	HA17-N-CC	GND	LA11_N	GND	HA15_N	GND	LA13_P	GND	DP6_M2C_N	GND	DP13_M2C_N	GND
18	DP14_C2M_P	GND	GND	HA18_P	GND	LA16_P	GND	HA20_P	LA13_N	LA14_P	GND	DP5_M2C_P	GND	DP14_M2C_P
19	DP14_C2M_N	GND	HA21_P	HA18_N	LA15_P	LA16_N	HA19_P	HA20_N	GND	LA14_N	GND	DP5_M2C_N	GND	DP14_M2C_N
20	GND	REFCLK_C2M_P	HA21_N	GND	LA15_N	GND	HA19_N	GND	LA17_P_CC	GND GND	GBTCLK1_M2C_P	GND	GBTCLK5_M2C_P	GND
21 22	GND	REFCLK_C2M_N GND	GND	HA22_P	GND	LA20_P	GND	HB03_P	LA17_N_CC GND		GBTCLK1_M2C_N GND	GND	GBTCLK5_M2C_N GND	GND
23	DP15_C2M_P	GND	HA23_P HA23_N	HA22_N GND	LA19_P	LA20_N GND	HB02_P	HB03_N GND		LA18_P_CC	GND	DP1_C2M_P	GND	DP15_M2C_P
23	DP15_C2M_N GND		GND		LA19_N GND		HB02_N GND		LA23_P LA23_N	LA18_N_CC GND		DP1_C2M_N GND		DP15_M2C_N GND
24 25	GND	REFCLK_M2C_P REFCLK M2C N	HB00-P-CC	HB01_P HB01_N	LA21 P	LA22_P LA22_N	HB04 P	HB05_P HB05_N	GND	GND	DP9_C2M_P DP9_C2M_N	GND	DP10_C2M_P DP10_C2M_N	GND
26	DP16 C2M P	GND	HB00-P-CC	GND	LAZI_P LA21 N	GND	HB04_P	GND	LA26 P	LA27 P	GND	DP2 C2M P	GND	DP11 C2M P
26	DP16_C2M_P DP16 C2M N	GND	GND	HB07 P	GND	LA25 P	GND	HB09 P	LA26_P LA26_N	LA27_P LA27_N	GND	DP2_C2M_P DP2 C2M N	GND	DP11_C2M_P DP11 C2M N
28	GND	SYNC M2C P	HB06-P-CC	HB07_P	LA24 P	LA25_P LA25 N	HB08 P	HB09_P	GND	GND	DP8 C2M P	GND	DP12 C2M P	GND
29	GND	SYNC_M2C_P SYNC M2C N	HB06-P-CC	GND	LA24_P LA24_N	GND	HB08 N	GND	TCK	GND	DP8_C2M_P DP8 C2M N	GND	DP12_C2M_P DP12_C2M_N	GND
30	DP17 C2M P	GND	GND	HB11 P	GND	LA29 P	GND	HB13 P	TDI	SCL	GND	DP3 C2M P	GND	DP13 C2M P
31	DP17_C2M_P DP17 C2M N	GND	HB10-P	HB11_P	LA28 P	LA29_P LA29_N	HB12 P	HB13_P	TDO	SDA	GND	DP3_C2M_P DP3 C2M N	GND	DP13_C2M_P DP13_C2M_N
32	GND	RES2	HB10-N	GND	LA28 N	GND	HB12_F	GND	3P3VAUX	GND	DP7 C2M P	GND	DP16 M2C P	GND
33	GND	RES3	GND	HB15 P	GND	LA31 P	GND	HB19 P	TMS	GND	DP7_C2M_F	GND	DP16_M2C_F	GND
34	DP18 C2M P	GND	HB14-P	HB15 N	LA30 P	LA31_F	HB16 P	HB19 N	TRST L	GA0	GND	DP4 C2M P	GND	DP17 M2C P
35	DP18 C2M N	GND	HB14-N	GND	LA30 N	GND	HB16 N	GND	GA1	12P0V	GND	DP4 C2M N	GND	DP17 M2C N
36	GND	12P0V	GND	HB18 P	GND	LA33 P	GND	HB21 P	3P3V	GND	DP6 C2M P	GND	DP18 M2C P	GND
37	GND	12P0V	HB17 P CC	HB18 N	LA32 P	LA33_F	HB20 P	HB21 N	GND	12P0V	DP6_C2M_P	GND	DP18_M2C_P	GND
38	DP19 C2M P	GND	HB17 N CC	GND	LA32 N	GND	HB20 N	GND	3P3V	GND	GND	DP5 C2M P	GND	DP19_M2C_P
39	DP19 C2M N	GND	GND	VIO B M2C	GND	VADJ	GND	VADJ	GND	3P3V	GND	DP5_C2M_N	GND	DP19_M2C_N
40	GND	12P0V	VIO B M2C	GND	VADJ	GND	VADJ	GND	3P3V	GND	RES0	GND	3P3V	GND
FMC LPC					X	X			X	X		****		
FMC HPC			X	X	V		X	X	V		X	V		
	.,		~	**	X	X	**	**	X	X	**	X		
FMC+ HSPC	X	X	X	X	X	X	X	X	X	X	X	X	X	X

ALL ZEBAX products are RoHS compliant and Lead Free unless otherwise indicated.

FMC LCP: Vita 57.1 Low Pin Count, LPC, signals FMC HPC: Vita 57.4 High Pin Count, HPC, signals.

FMC+ HSPC: FMC+ High Serial Pin Count, HSPC, signals.

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SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT

ASSEMBLY DRAWING

ITEM: ZX180V-HSPC

DESCRIPTION:

FMC+ HSPC VITA 57.4 breakout adapter passive FPGA mezzanine card

CHECKED: M. MARINA

SLAVIK

REVISSION: 1.0

SHEET: 2 OF 3

