

Product Name: ZX180 FMC Vita 57.1 breakout adapter – passive FPGA Mezzanine Card HPC

Product Description: FPGA Mezzanine card , FMC , passive breakout adapter, meeting VITA 57.1 standard bus interface. Includes 10 rows x 40 pins, totaling 400 pins, High Pin Count , HPC, housing both SEAM and SEAF connectors. Fully compatible with Low Pin Count, LPC connector interface.

Provides prototype area as well as spacer for SMD 0402 type package for each signal at 50 Ohms trace impedance.

Samtec Molex HI-SPEED HI-DENSITY SEARRAY design connectors.

Fully compatible with 10 rows x 40 pins per row single ended or differential pairs design configuration

- Designed in 8 layer PCBoard
- All signals are accessible via standard 0402 SMD footprint, see Access
- Improved signal integrity and crosstalk with 8 layers PCB with each layers guarded by GROUND plane.
- Matching connector's 50Ω trace impedance on all traces – Reference plane impedance 50Ω for DC to 10GHz bandwidth applications

GND test point for easy access as well as applying external ground reference

Application: FMC VITA 57.1 daughter card Bringup, testing, emulation, Xilinx development Virtex 6 Virtex 7 interface testing daughter board to host, modular design evaluations

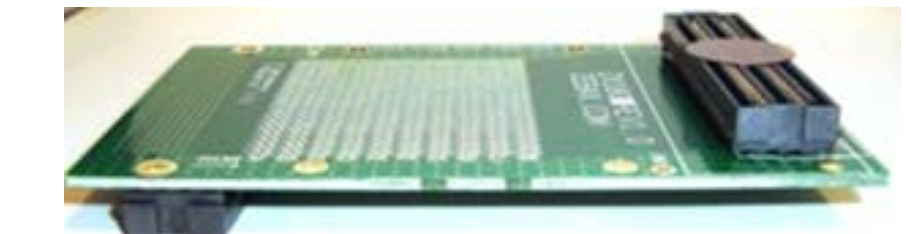
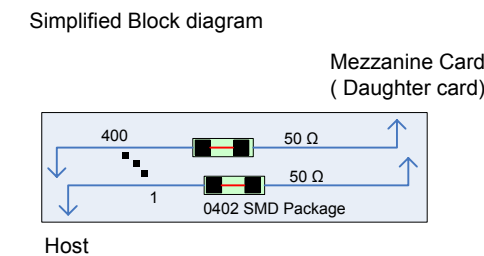
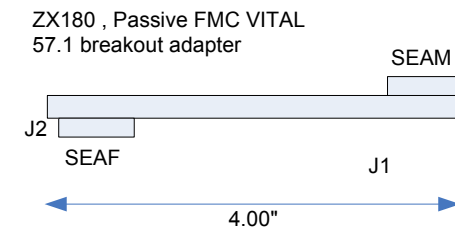
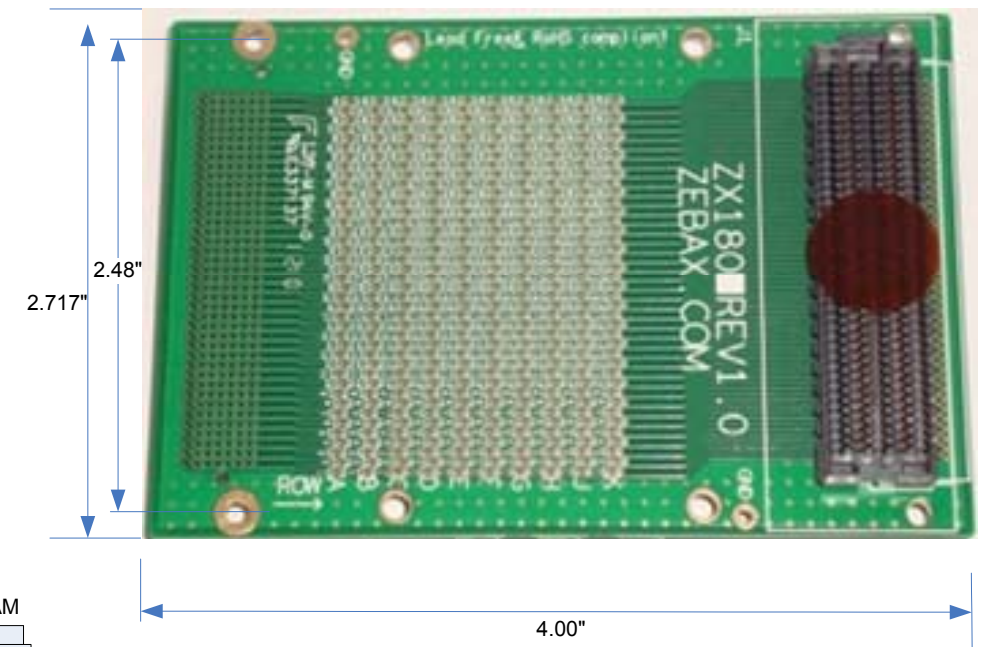
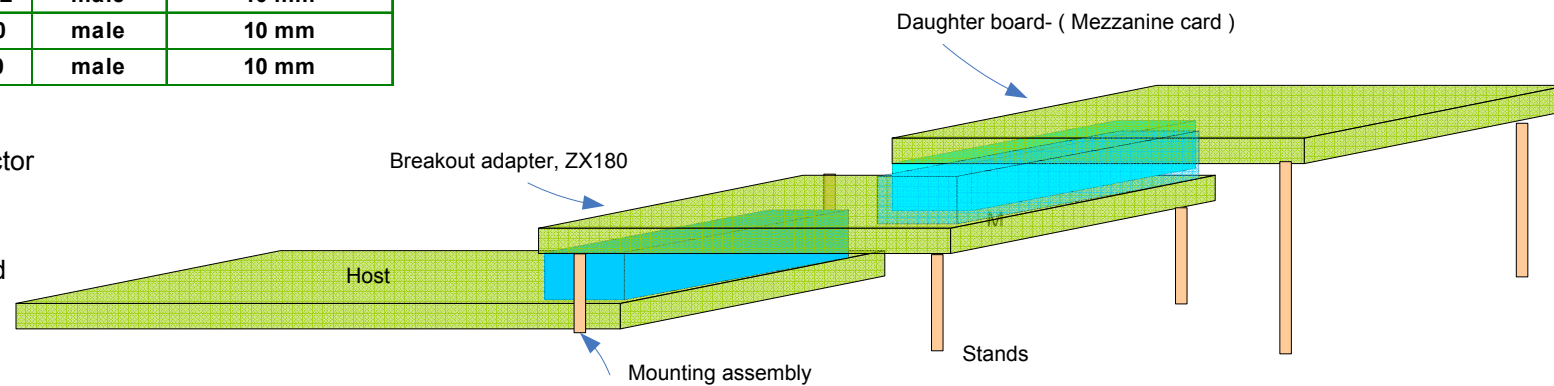
Mates with : Xilinx FPGA development systems Virtex 6 Virtex 7 connecting daughter board to Host
Any and all FMC VITA 57.1 compliant design.
SEAM SADL SEAMP SEAR SEAMI SEAC FMC HPC LCP
SEAF-040-08.0-L-10-2-A SEAF-040-08-L-10-2-A
SEAFP-40 SEAMP-040 SEAMI-040 SEAR-040-10-10- SEAM-040
All listed Samtec Molex FMC connectors listed, table below:

ZX180 HPC FMC breakout adapter mates with the following Samtec Molex SEARRAY™ VITA 57 Connectors

Molex PN	Samtec PN	VITA PN	Description	Mated Stack Height
45971-4307	ASP-127796-01	CC-LPC-10L	female	
45971-4317	ASP-134485-01	CC-HPC-10L	female	
45971-4315	ASP-134486-01	CC-HPC-10	female	
45971-4305	ASP-134603-01	CC-LPC-10	female	
45970-4117	ASP-134601-01	MC-HPC-8.5L	male	8.5 mm
45970-4115	ASP-134602-01	MC-HPC-8.5	male	8.5 mm
45970-4107	ASP-134605-01	MC-LPC-8.5L	male	8.5 mm
45970-4105	ASP-134606-01	MC-LPC-8.5	male	8.5 mm
45970-4307	ASP-127797-01	MC-LPC-10L	male	10 mm
45970-4317	ASP-134487-01	MC-HPC-10L	male	10 mm
45970-4315	ASP-134488-01	MC-HPC-10	male	10 mm
45970-4305	ASP-134604-01	MC-LPC-10	male	10 mm

Pitch: 1.27mm (0.05") High Speed connector

Access: SMD 0402 Package footprint.
Default : All conductors are enabled



Typical signal connection: 0402 SMD Package

Break signal path:



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

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SPECIFIED DIMENSIONS ARE INCHES (MM). ROHS COMPLIANT
ASSEMBLY DRAWING
ITEM: ZX180-HPC

DESCRIPTION: FMC VITA 57.1 breakout adapter – passive FPGA mezzanine card HPC

CHECKED: M. MARINA

DRAWN: SLAVIK

REVISION: 1.0

SHEET: 1 OF 1

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