

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

Product Description: FPGA Mezzanine card , FMC , passive breakout adapter meeting VITA 57.1 standard bus interface. Includes **4 rows x 40 pins** per row totaling **160 pins** Low Pin Count , LPC , housing both SEAM and SEAF connectors. ONLY rows 3, 4, 7, 8 (C, D, G, H rows) are available

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 4 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
- 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

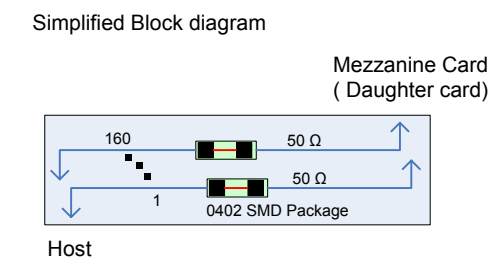
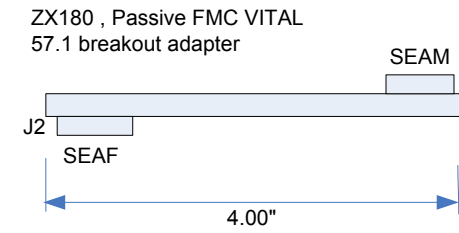
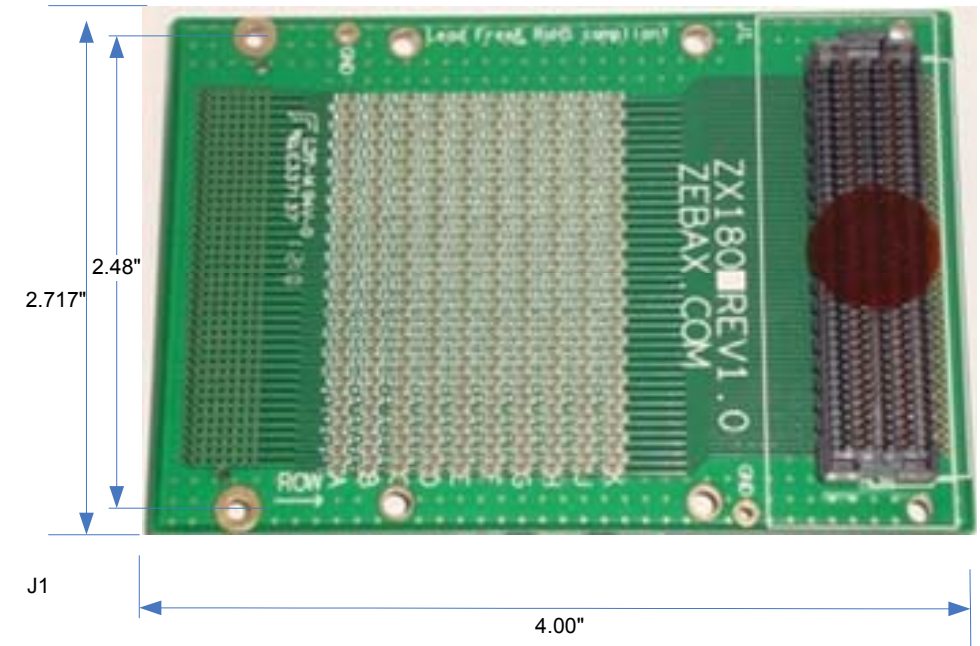
GND test point for easy access as well as applying external ground reference

Application: FPGA Mezzanine Card (daughter) FMC, VITA 57.1 , FPGA Bringup, testing, emulation, Xilinx development Virtex 6 Virtex 7 interface testing daughter board to host, modular design evaluations

Mates with : Mechanically compatible with HPC connectors, ONLY 4 listed signal rows are available. Xilinx FPGA development systems Virtex 6 Virtex 7. 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

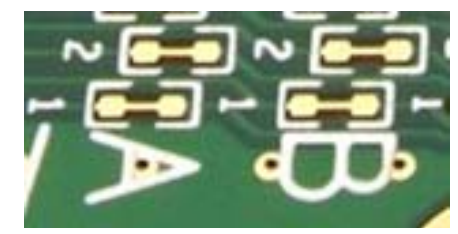
All listed Samtec Molex FMC connectors listed, table below:

ZX180 LPC 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	
45971-4305	ASP-134603-01	CC-LPC-10	female	
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
45970-4305	ASP-134604-01	MC-LPC-10	male	10 mm



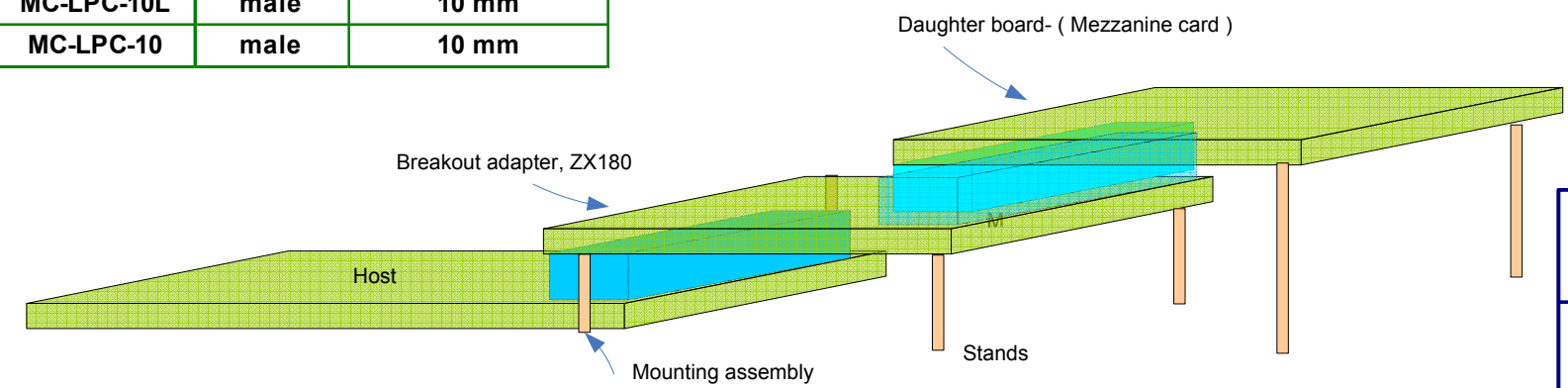
Typical signal connection: 0402 SMD Package

Break signal path:



Pitch: 1.27mm (0.05") High Speed connector

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



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-LPC	
DESCRIPTION: FMC Vita 57.1 breakout adapter – passive FPGA Mezzanine Card LPC		
CHECKED: M. MARINA	DRAWN: SLAVIK	REVISION: 1.0
		SHEET: 1 OF 1

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