

**Product Name:** ZX181 MegArray Mezzanine Card FPGA breakout adapter passive, FCI

**Product Description:** MegArray FPGA Mezzanine card breakout adapter. Includes MegArray 10 rows x 40 pins, totaling 400 pins, housing PLUG mating with host only.

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

**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

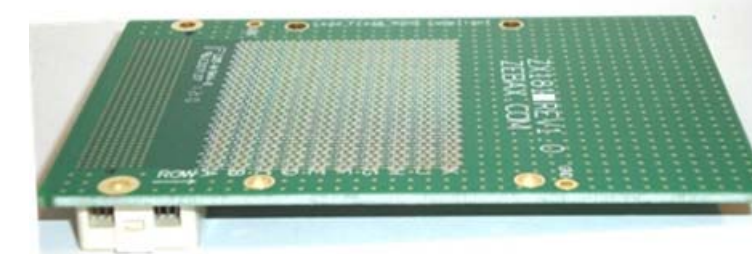
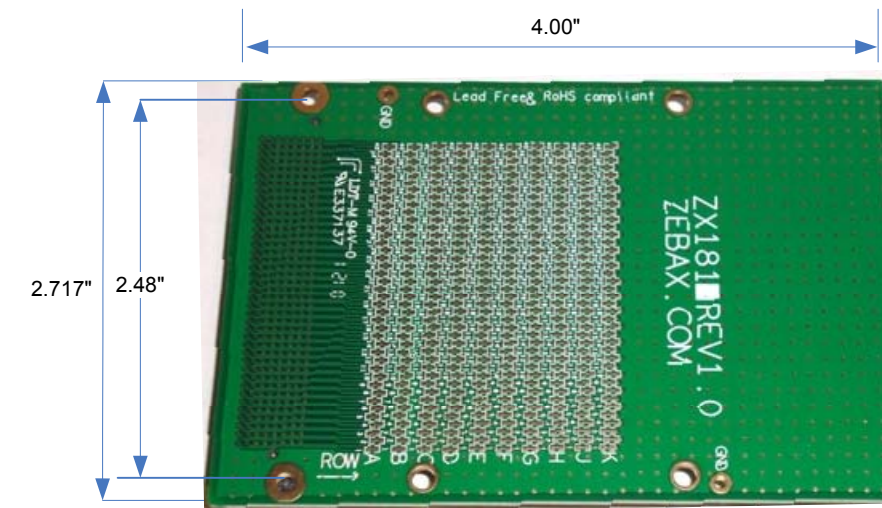
**Application:** MegArray FPGA Mezzanine Card ( daughter ) FMC, FPGA Bringup, testing, emulation, Xilinx development Virtex 6 Virtex 7 DiniGroup FPGA board interface, interface testing daughter board to host, modular design evaluations, Board to board

**Mates with :** FPGA systems Virtex 6 Virtex 7 connecting daughter board to Host  
Any and all FMC VITA 57.1 compliant design using FCI Meg-Array 400 pins design.  
Meg-Array Meg-Array 10 rows x 40 pins per row FPGA Mezzaine Card (daughter)  
84520-002 84520-002LF 84520-102 84520-102LF 84520-202 84520-202LF 6mm Plug  
84740-002 84740-002LF 84740-102 84740-102LF 84740-202 84740-202LF 0mm Plug

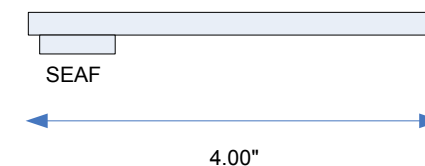
Mated Stack Height: 4mm 6mm 8mm 10mm 12mm 14mm  
Meets Telcordia GR-1217-CORE and NPS25298-2 Specifications

**Pitch:** 1.27mm (0.05") High Speed connector MEG-Array MezzSelect

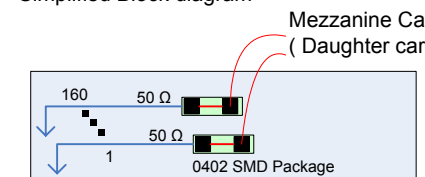
**Access:** SMD 0402 Package footprint.  
Default : All conductors are enabled



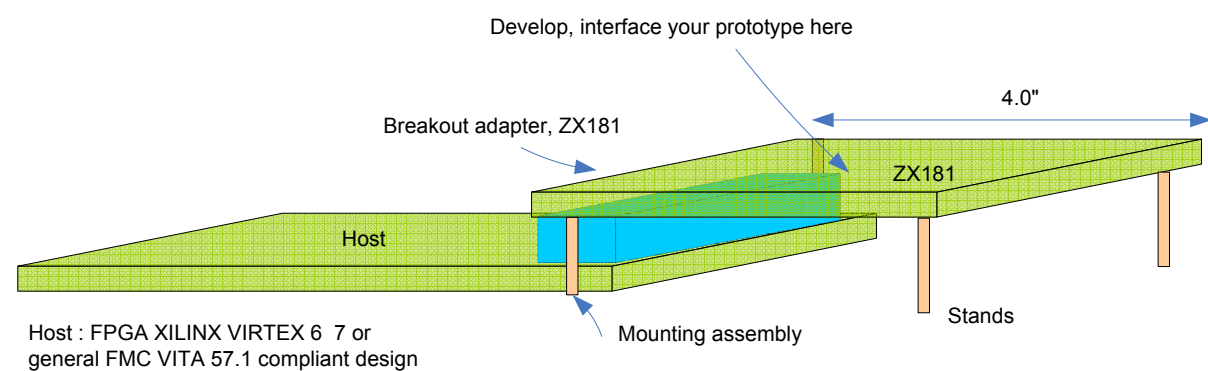
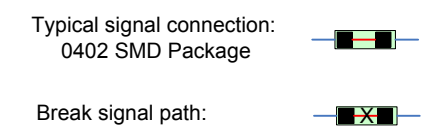
Breakout adapter, ZX181



Simplified Block diagram



Note: Prototype (Daughter card) can be wired to ZX181 passive breakout adapter



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: ZX181-MegArray
DESCRIPTION: MegArray FPGA Mezzanine Card breakout adapter passive		
CHECKED: M. MARINA	DRAWN: SLAVIK	REVISION: 1.0 SHEET: 1 OF 1

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