

VC1902-PA-VSVD1760
VC1802-PA-VSVD1760
VM1302-PA-VSVD1760
VM1402-PA-VSVD1760
VM1802-PA-VSVD1760



ProGrAnalog Corp.
08/18/2023
Rev 3.2

Xilinx Power Test Adaptor (PTA) - to test power delivery network (PDN) to Versal ACAP VSVD1760 series FPGA's

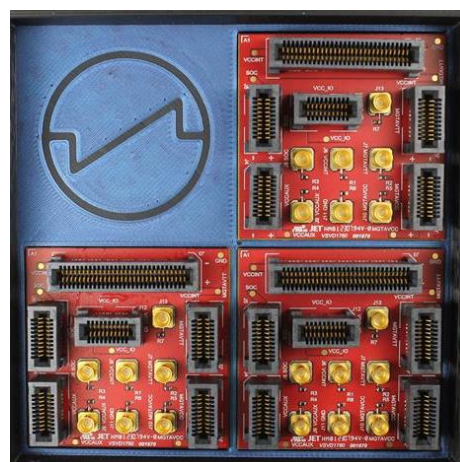
Features

- Set of 3 Xilinx Power Test Adaptors (PTA) for PDN testing AMD Xilinx Versal VSVD1760 series FPGAs
- Options available for VC1902, VC1802, VM1302, VM1402, VM1802
- 6 Samtec connectors to slam: VCCINT, VCC_IO, VCC_SOC, VGTY_AVTT, VCCAUX, AVCC
- 7 SMP connectors for measuring: GND, VCCINT, VCC_IO, VCC_SOC, VGTY_AVTT, VCCAUX, AVCC
- PA with BGA footprint reflows onto VSVD1760 PCB pads.
- Remote Vsense on Samtec connectors and SMP mini connectors.
- Most rails can be tested with an LSP200 controller.
- VCCINT >100A support with an LSP1000RS controller.
- GUI supports transient, pulse train, impedance and 3D plots.

Typical Test Setup

- * Xilinx Power Test Adaptor reflowed onto the test board
- * LSP1000RS connected into VCCINT connector.

Pack of 3 -VSVD1760 Series Xilinx PTA's



LoadSlammer GUI

Workspace
Test - 1 x


Available Tests

Name: Test - 1
Rail: None

Transient Test
Transient load step with adjustable rise times, current, and pulse width.

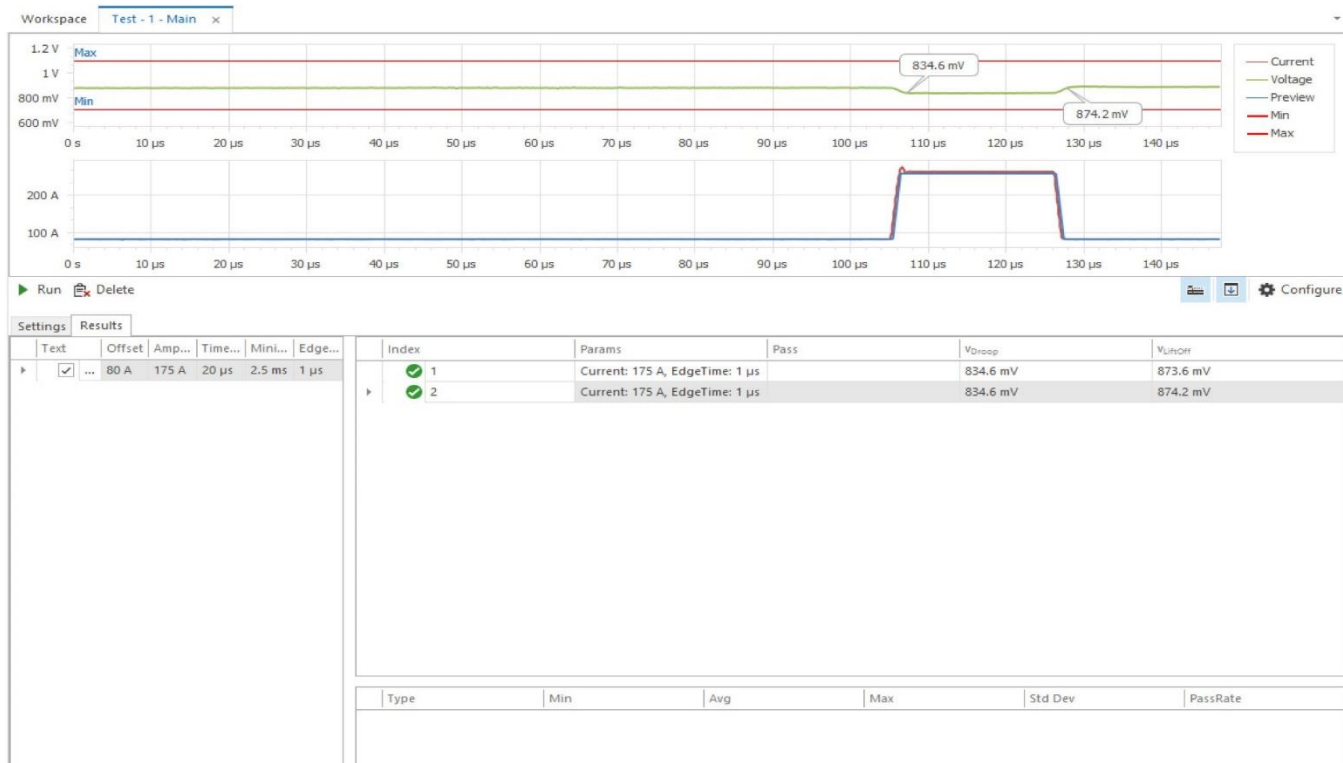
Pulse Train
Repeating load steps with a configurable frequency and duty cycle.

Impedance (Z)
Large signal output impedance with adjustable current amplitude and offset.

DC Load
DC Load with timer.

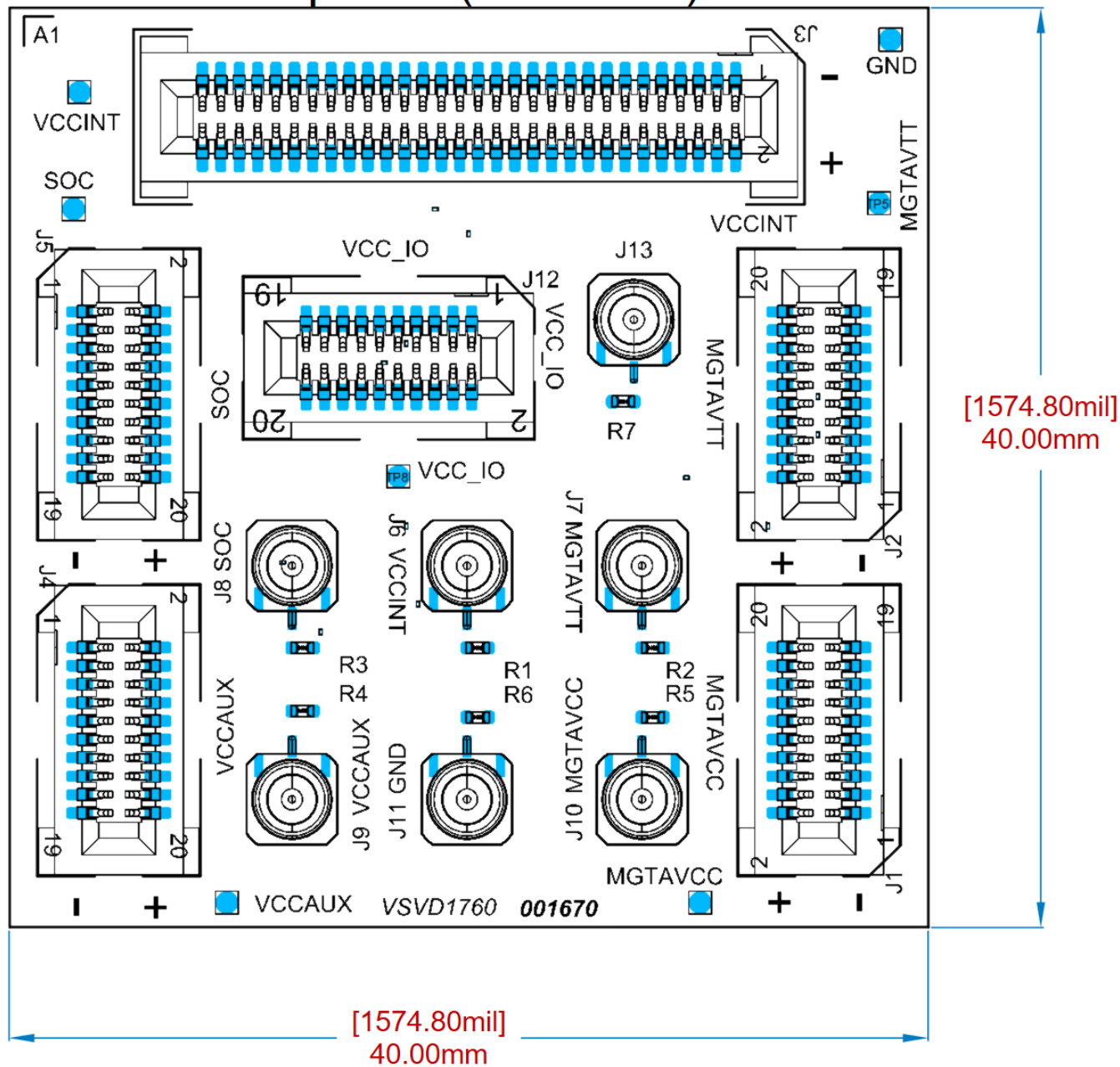
Delay
Timed delay.

Transient test

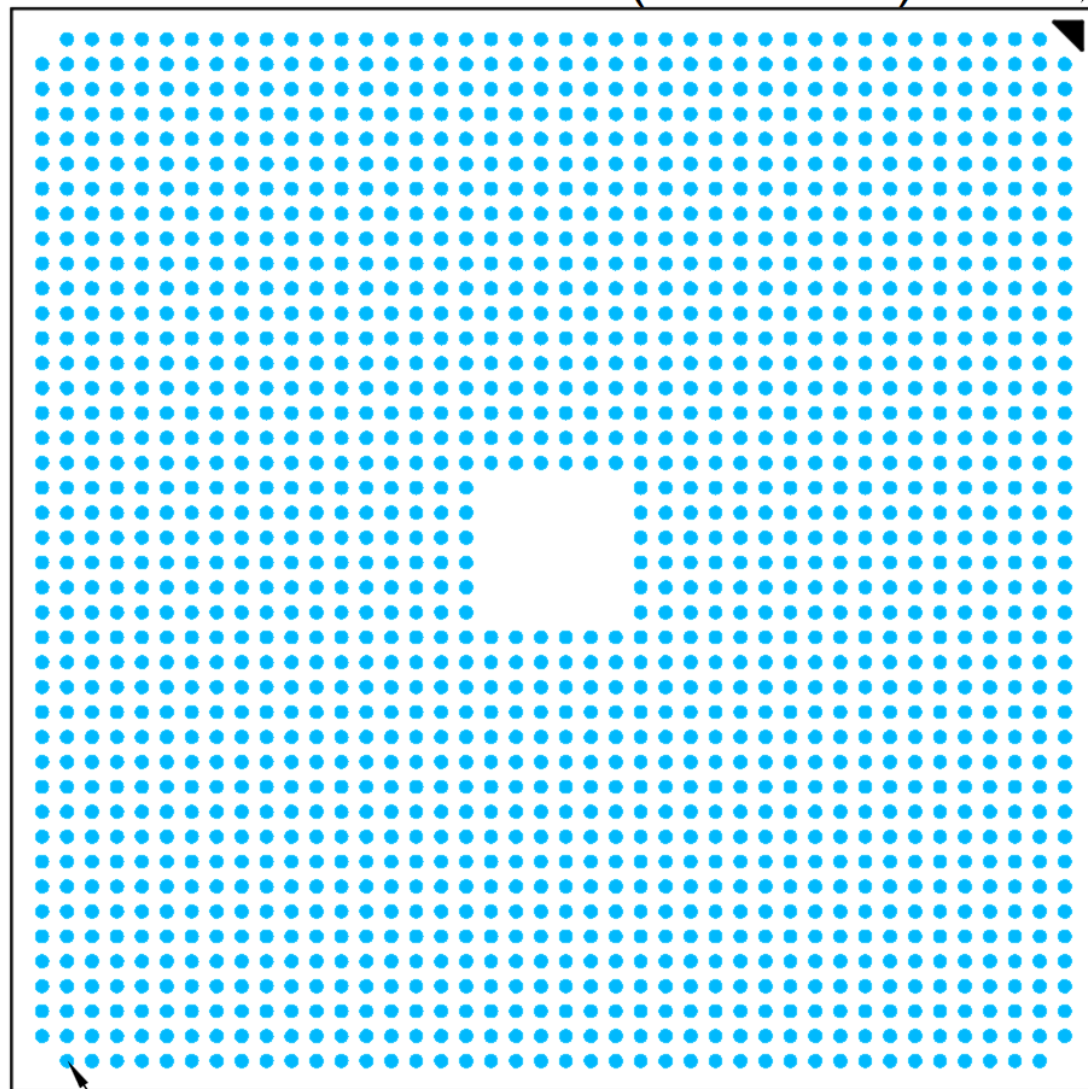


Mechanical Specs

View from Top side (Scale 3:1)



View from Bottom side (Scale 3:1)



Pin 1 I.D.

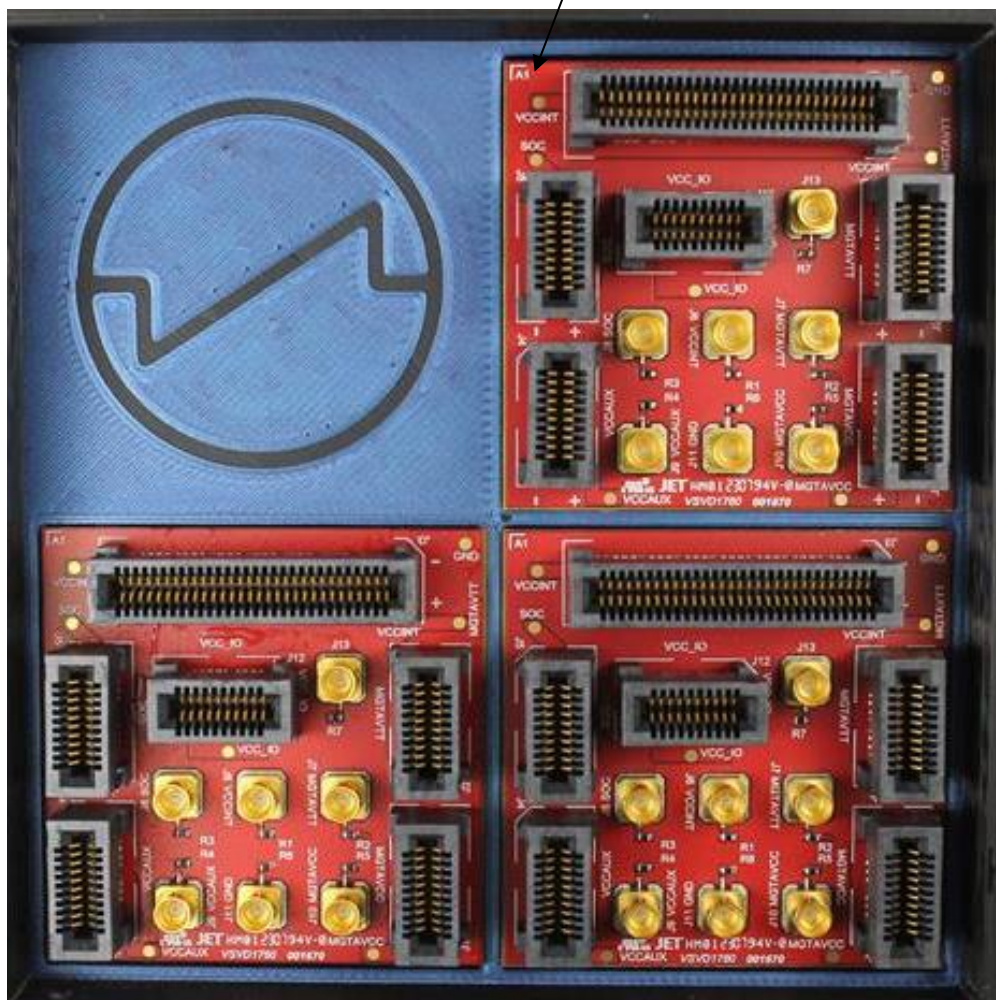
0.92mm BGA Pitch

Sn96.5-Ag3.0-Cu0.5 0.6mm balls

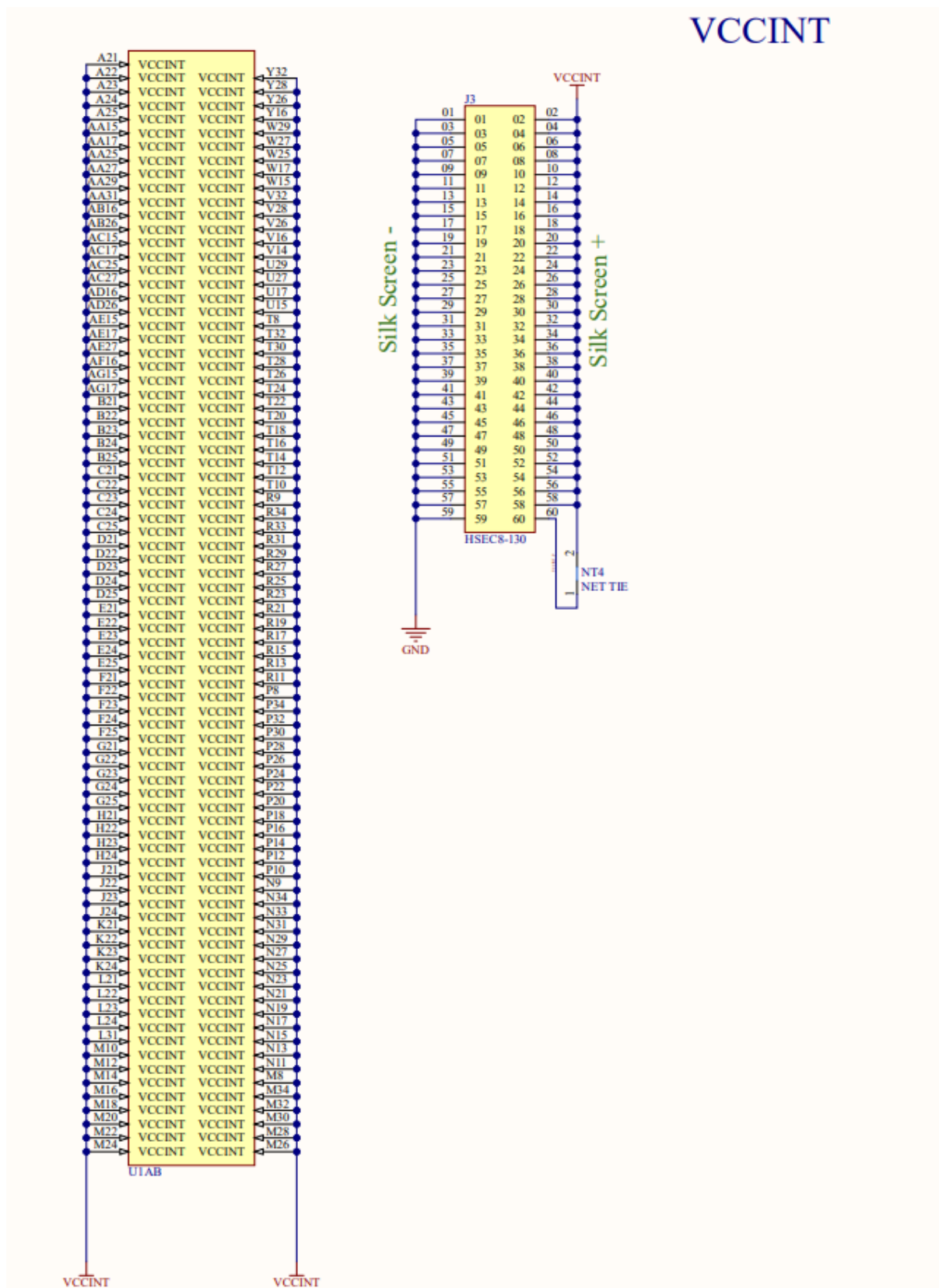
Packing Tray Specs

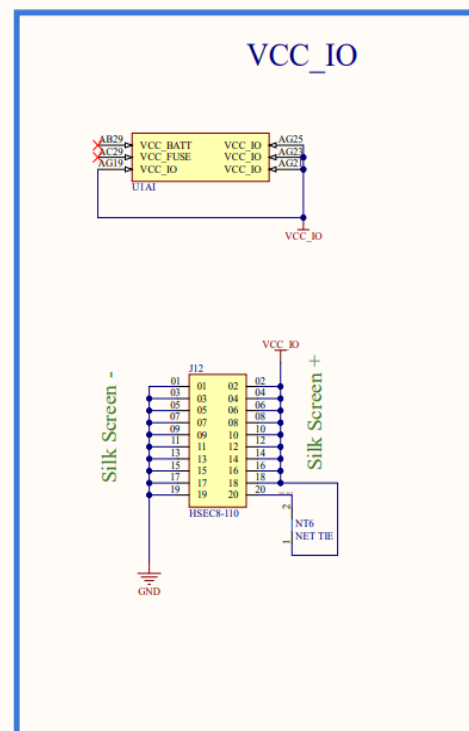
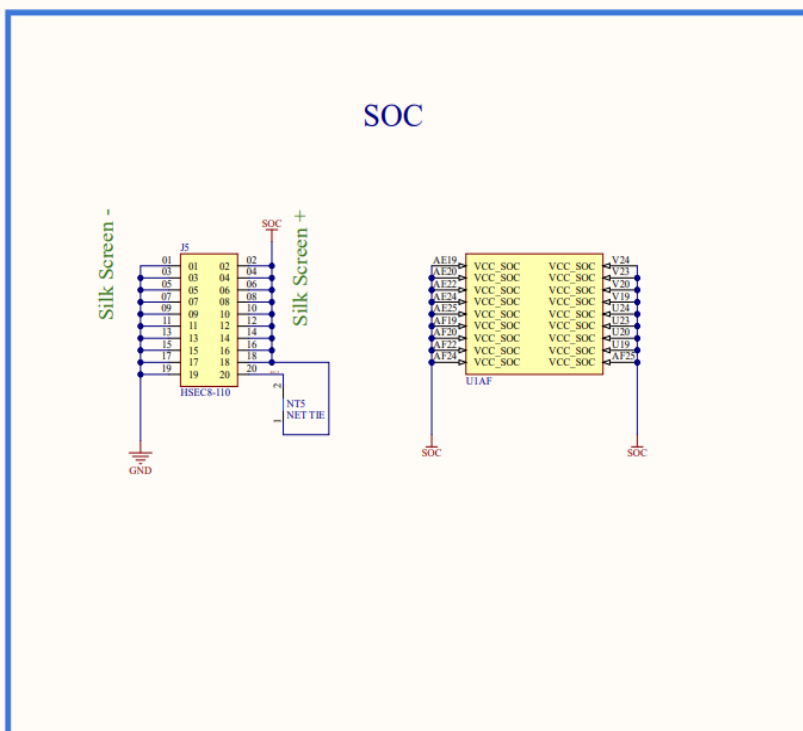
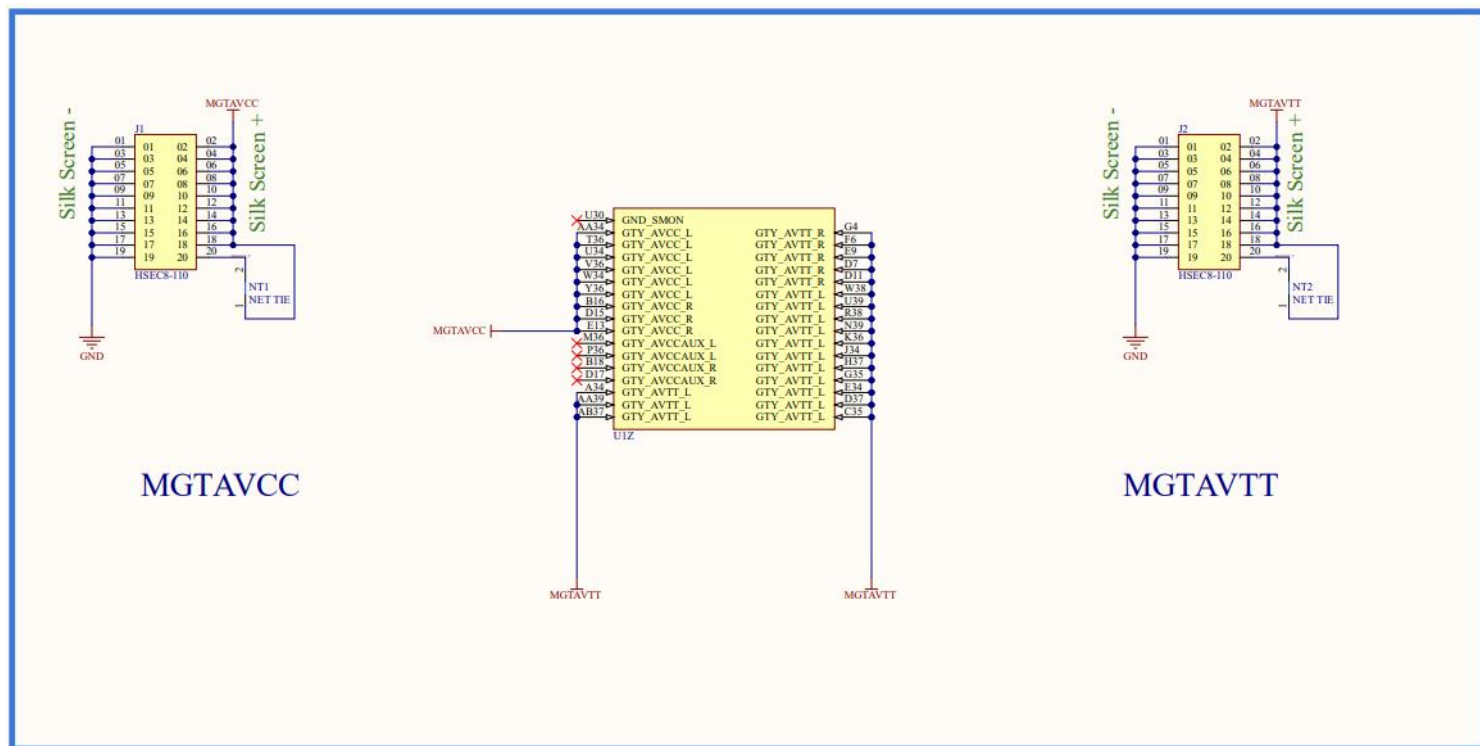
40x40mm package will have a 92x92x15mm tray.

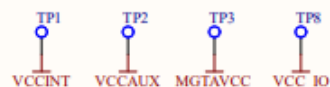
A1 top left corner



Schematics

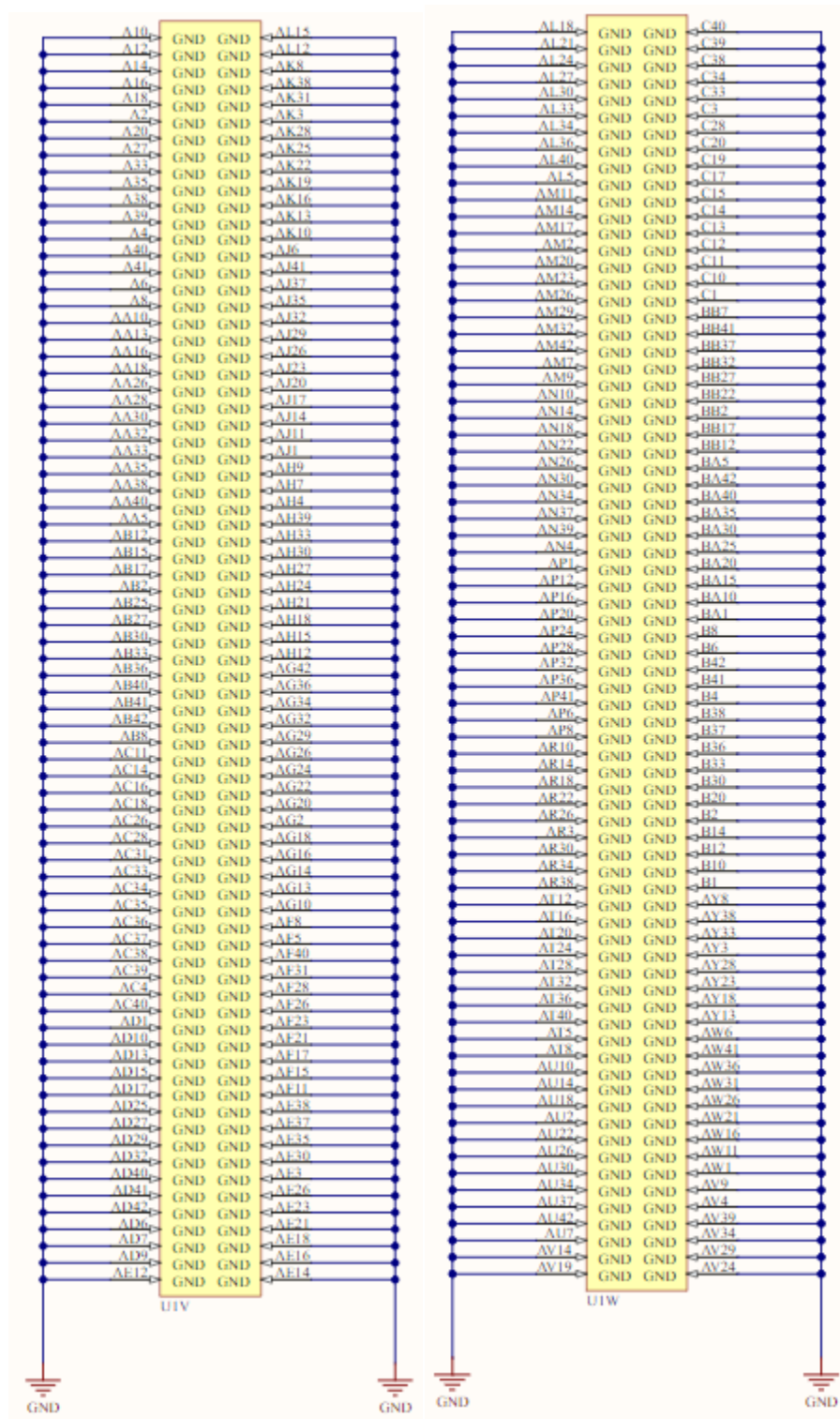


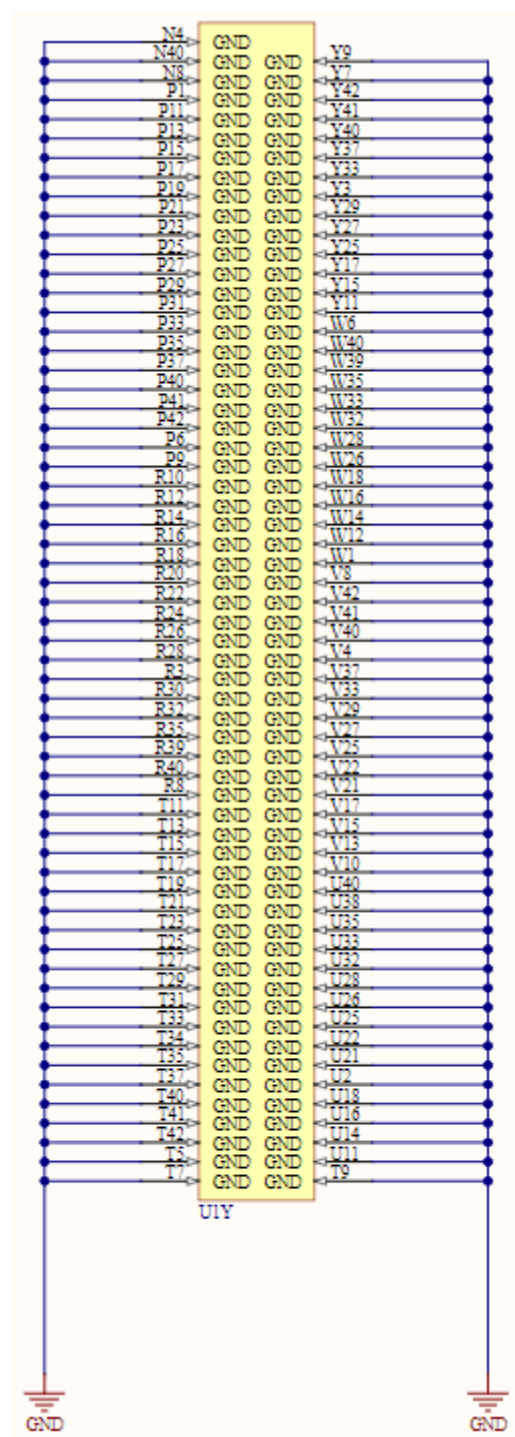
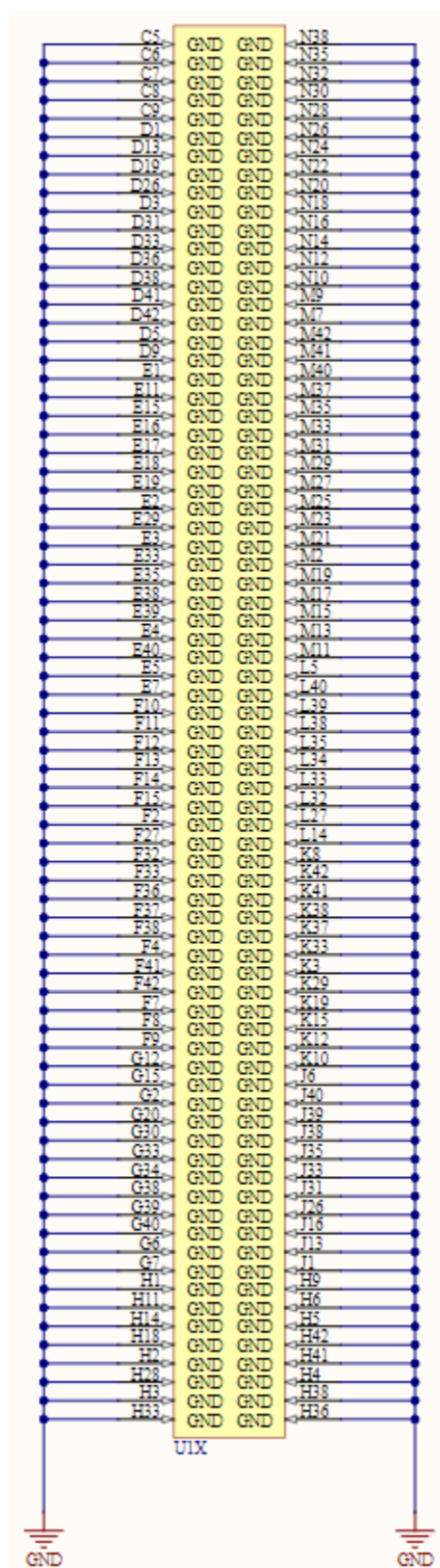






GND:





Availability

Xilinx part number	ProGrAnalog part number
VC1902-VSVD1760	PA-KIT-VC1902-VSVD1760
VC1802-VSVD1760	PA-KIT-VC1802-VSVD1760
VM1302-VSVD1760	PA-KIT-VM1302-VSVD1760
VM1402-VSVD1760	PA-KIT-VM1402-VSVD1760
VM1802-VSVD1760	PA-KIT-VM1802-VSVD1760

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<https://loadslammer.com>

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Authorized Distributor

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