VPX-TF3090

3U VPX Test Frame Compliant with VITA 46 and OpenVPX Standards

Features

- Up to 9 slots for 3U VPX conduction cooled blades
- Enables board-to-board communication validation
- Optional 3-slot backplane
- Optional rear transition module
- Standard BIOS and firmware

VPX™ VPX REDI™ OpenVPX™ CONDUCTION COOLED



Specifications

- **Mechanical & Environmental**
  3U Test Frame compliant with VITA 46 and OpenVPX
- **Cooling System**
  Passive fins

Power Input
External ATX power

Operating Temp.
-40°C to 85°C (at wedge lock)

Physical
Dimensions: 209.89 x 142.55 x 281.28 mm (H x W x D)
Weight: 7.49 kg/16.5 lbs (including backplane)

- **Backplane**

Slot 1 & slot2
PCIe x4 and 1000BASE-BX Crossover
GbE: 1x 1000BASE-T

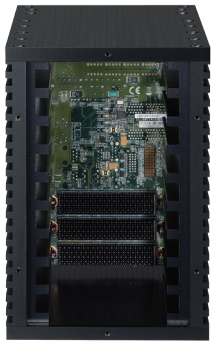
Slot 3 (Only compatible VPX3000 CPU Blade)
PCIe: 2x PCIe x4
Display: 1x DVI-I port
USB 3.0: 1 port
USB 2.0: 1 port
SATA: 2 ports (6 Gb/s)
XMC: 1x XMC I/O x8d + x12d
COM: 1x R-S232, 1x RS-422
Audio: 1x Line-in, 1x Line-out
Power: 1x 24-pin ATX power, power screw support
Others: I/O signals routed from 3rd slot only

- **Compatible Processor Blade**

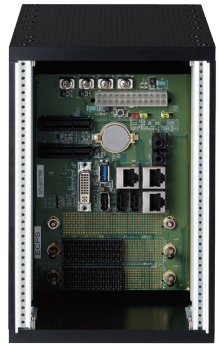
CPU Boards
VPX3000-R / VPX3001-R / VPX3010-R

GPGPU Board
VPX3G10-R

Mechanical Layout



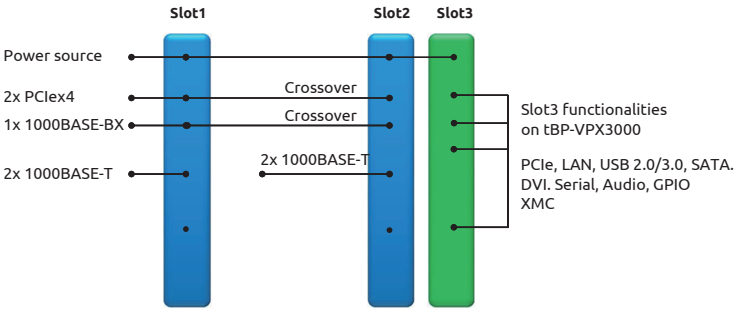
Front View

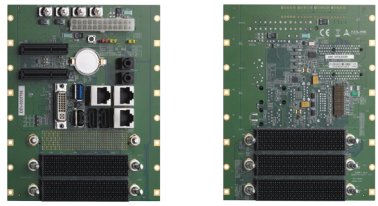


Rear View

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Block Diagram of tBP-VPX3000





tBP-VPX3000

Ordering Information

- **VPX-TF3090**
  3U VPX test frame with backplane for users to validate processor blade functionality
- **tBP-VPX3000**
  3-slot testbed for VPX-3000; SLT1-2: VITA 65 SLT3-PAY-2F2U-14.2.3, BKP3-DIS02-15.2.8-1 SLT3 I/O: 2x COM-RJ45, 1x GbE-RJ45, 1x DVI-I, 2x USB, 2x SATA 6G, 2x PCIex4, Line-in/out jacks

Rear Transition Module

- **VPX-R300**
  Rear transition module for VPX3000 processor blade with DVI-I, USB 2.0, USB 3.0, 1000BASE-T on front panel and Line-in, Line-out, RS-232, RS-422, 2x SATA 3.0, GPIO pin headers, XMC port onboard
- **VPX-R3001**
  Rear transition module for VPX3001 processor blade with 2x 1000BASE-BX and VGA on front panel; 2x 1000BASE-T, 2x USB 2.0, SATA, 2x RS-232, GPIO pin headers, SMBus, JTAG XMC onboard
- **VPX-R3010**
  Rear transition module for VPX3010 with GbE, SATA, USB 3.0/2.0, RS-232, GPIO

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