VPX Storage Modules

XVPX-9756 3U VPX Bootable SATA/SAS Drive Module

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Block diagram labels:
- VPX P0 AND P1 CONNECTORS
- SATA PIPE C
- SMBus — FRU EEPROM
- 512K x 8-BIT CMOS FLASH
- PCIe x1 SATA PIPE A
- SII3132 PCIe/SATA BRIDGE
- SATA PIPE D
- ZEROIZE INPUT
- PURGE INPUT
- SATA0 MUX
- SATA1 MUX
- SATA0 2.5" SSD OR SLIM SATA
- ACTIVITY LED
- SATA1 SLIM SATA
- FRONT PANEL
- HEADER
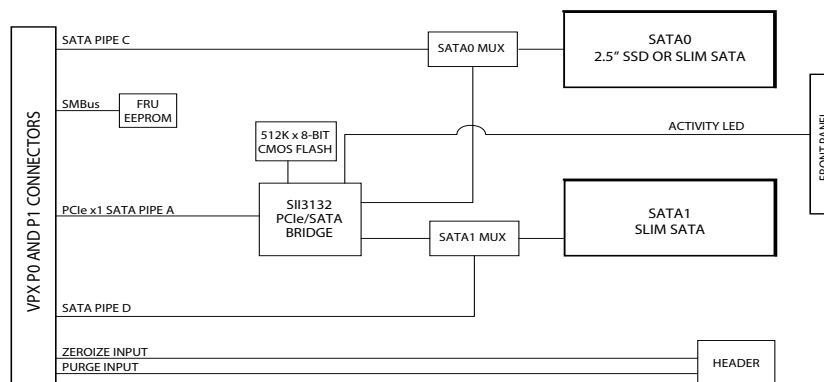
Boot via PCIe or SATA/SAS ◆ Supports dual SSD or a single 2.5" drive ◆ Dual SSDs are RAID 0/1 configurable

Description

The XVPX-9756 is a bootable SATA/SAS storage module which supports dual slim SATA drives (SSD) or a single 2.5" drive, either rotating or solid state. The module connects directly to the CPU via SATA signals or by means of PCI Express signals through an on-board controller. Given its connectivity options, the XVPX-9756 is an unequaled VPX bootable storage solution.

Key Features & Benefits

- Bootable over PCIe or SATA/SAS
- Supports SATA, SAS, and PCIe interfaces
- Suits customized or standard backplanes
- RAID 0/1 configurable with dual slim SATA drives
- Can support one or two CPU boards via SATA interfaces
- Drive activity LED
- SMbus FRU available for user data and module status

Performance Specifications

■ Bus Compliance
VITA 46.0, 46.4, 46.9, 48, 65
MIL Spec 217-F @105.000 Hrs

■ Form Factor
3U VPXbus 3.94" (100.01mm) x 6.3" (160mm)

■ Environmental
Operating temperature
Air cooled:	0 to 70°C*
Conduction cooled:	-40 to 85°C**
REDI cover, conduction cooled:	-40 to 85°C***

* w/ 200 lfm airflow
** must operate in a fully installed conduction cooled rack
*** must operate in a fully installed conduction cooled REDI rack

Storage temperature
Air cooled models:	-40 to 85°C
Conduction cooled and REDI models:	-40 to 105°C

Shock
Operating:
30g peak acceleration, 11ms duration

Non-operating:
50g peak acceleration, 11ms duration

Relative humidity
20 to 80% non-condensing

Vibration (5Hz-2kHz)
Operating:
0.015" (380µm) peak-to-peak displacement
2.5g max acceleration

Non-operating:
0.030" (760µm) peak-to-peak displacement
5.0g max acceleration

Ordering Information

■ XVPX-9756-AB0-X

A = Thermal
1 - Air cooled
2 - Conduction cooled
3 - REDI

B = Drive connector type
0 - HD/SDD (SATA)
1 - Dual slim SATA

X = Solder
L - Lead solder
LF - Lead-free solder

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