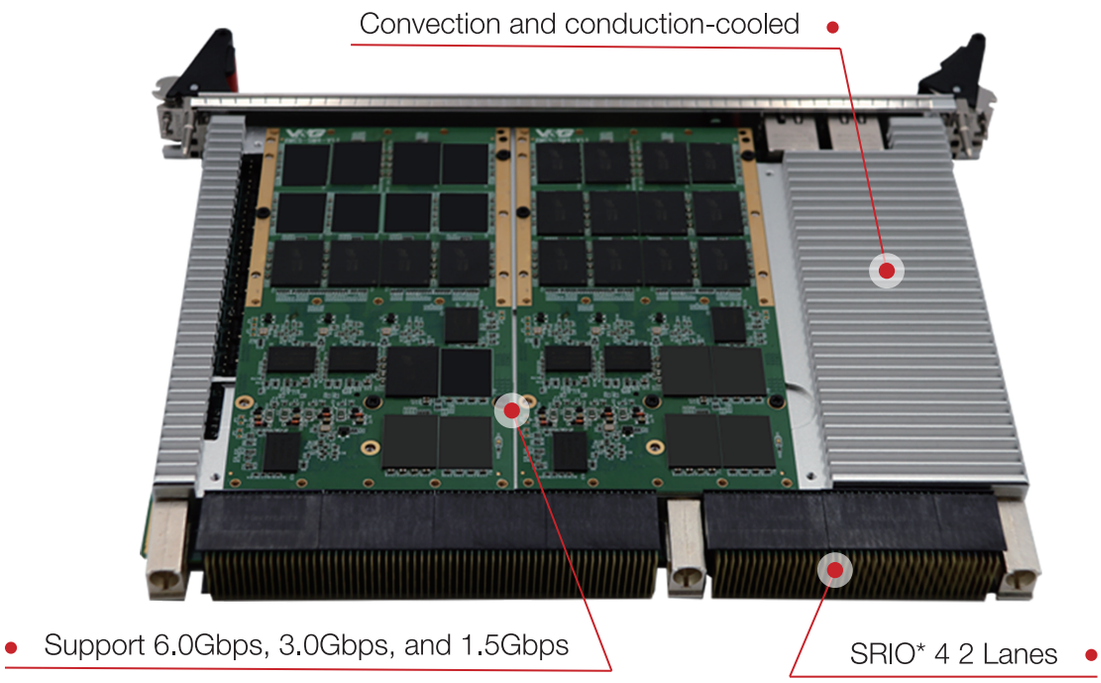
6U SRIO VPX

(RapidIO4x2+SATAx8)

VGG-X6UX-XX-XXX

MILITARY RUGGEDNESS SOLID AS A ROCK



V&G 6U SRIO VPX is a high end data memory storage based on the FPGA customize design. It has 2 lane RapidIO * 4 lines connector, single line can reach up to 6.25GB/s.

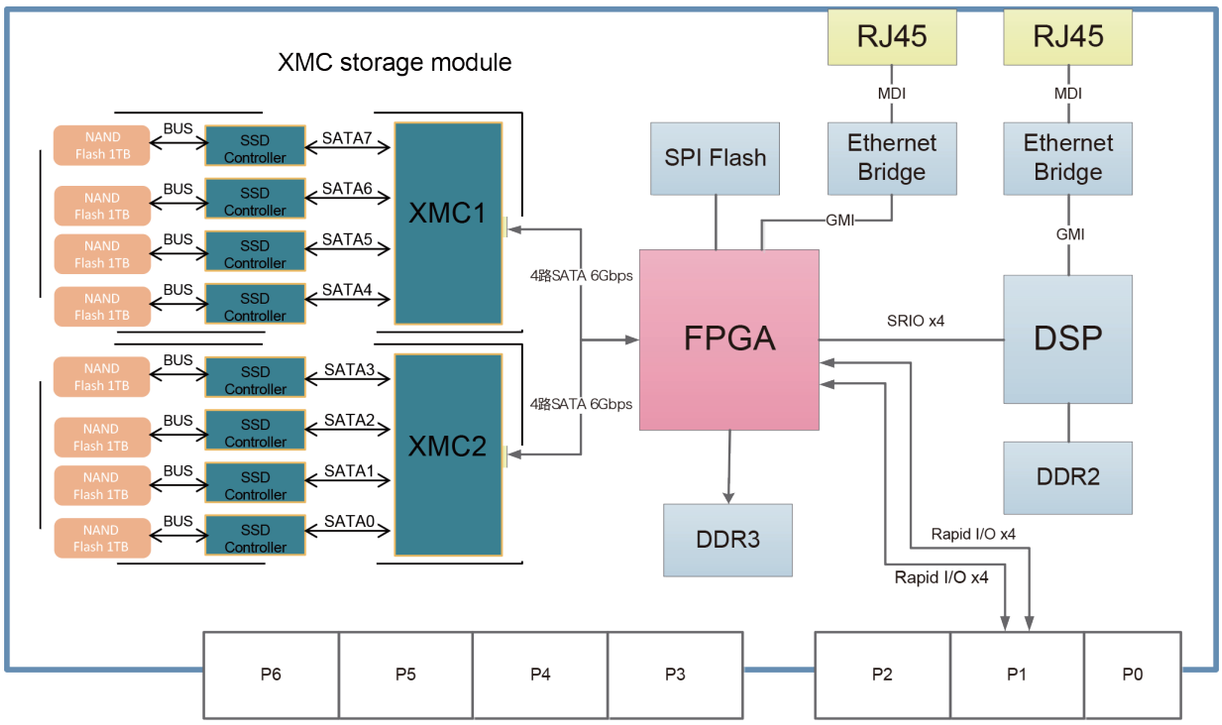
It supports 8 lane SATA3 with main line output, of 1.5Gbps, 3.0Gbps, and 6.0Gbps. The design is compliant with standard 6U VPX 4HP single board design, and also follows VITA 46, VITA 46.3, VITA 48 and VITA 65 standard.

FEATURES

- Support storage classification and ATA Secure Erase
- Built–in RAID processor, support hardware RAID
- Built–in ECC, wear–leveling and bad block management
- Support external write protection
- Support RAID 0,1,5,6,10,50 JBOD functions
- Support Intelligent Destruction (Secure Erase and Quick Erase)
- PCIe 2.0 x8 Bus
- 256–bit AES Encryption
- Capacity: Up to 8TB of memory storage
- Convection and conduction–cooled
- Support IPMI management
- Support various operating systems: Windows, Linux, Solaris, China Kylin, and VxWorks
- SRIO* 4 (2 Lanes)
- Support SATA 6.0Gbps, 3.0Gbps, and 1.5Gbps

APPLICATIONS

- Data Recorder (RADAR and Flight Recorder)
- Data Acquisition System
- Military Defense and Aerospace
- Rugged Systems (Vehicles, Space and Naval)



SPECIFICATIONS

Dimension	Form Factor: 6U VPX Size：233.35 mm x 160.00 mm x 25.40 mm Weight：≈1.2 kg
Capacity	MLC：8TB Maximum SLC：4TB Maximum
RAID	Support RAID 0,1,5,6,10,50,JBOD functions
Input Voltage and Power Consumption	Input Voltage：5V/12V ± 5% Power Consumption：55W(Active)　15W(Idle)
I/O Connector	Data connection before FPGA：Loaded XMC connector * 2 Data connection after FPGA：VPX P1 connector. Front panel 10/100/1000 Mbps RJ45 connector *2
Operating System and Software	Windows、MAC、Linux、Unix、Solaris、China Kylin、and VxWorks...
Performance	Sequential Read：3.2 GB/S Sequential Write：3.0 GB/S
Reliability	MTBF：2,000,000 Hours
Operating Environment	Operating Temperature：W-temp ： -40℃ – 85℃ C-temp ： 0℃ – 70℃ Storage Temperature：-55℃ – 95℃ Humidity：5%-95% (condensing) Vibration：10 G (10 to 2000Hz) Shock：1500 G at 0.5ms

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