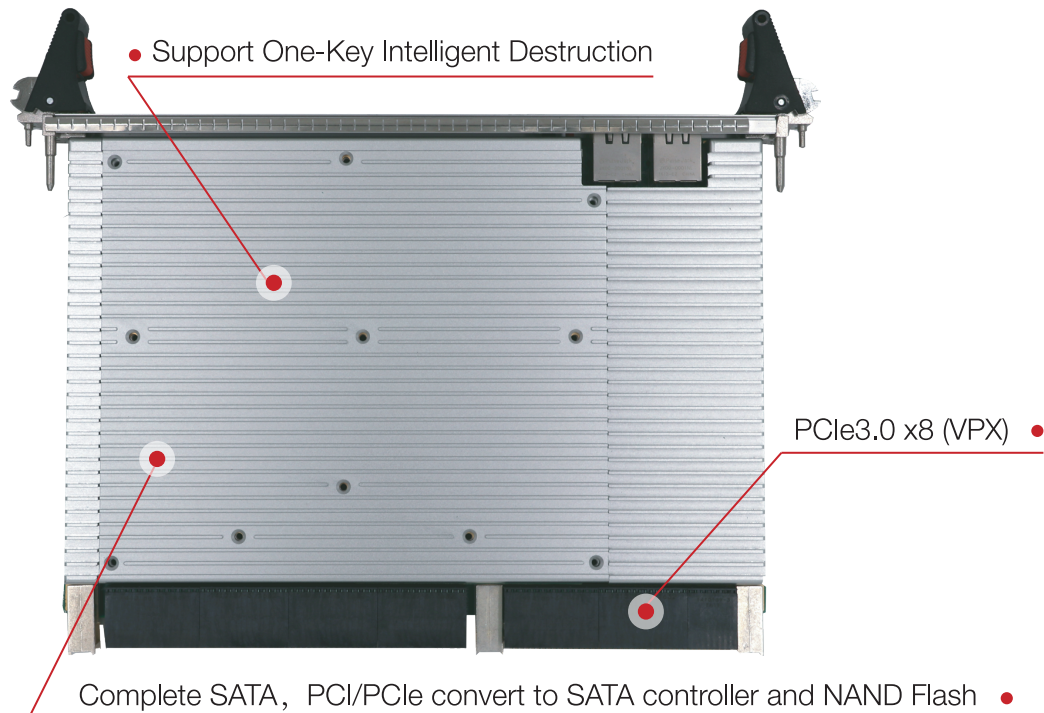


6U SRIO VPX

(PCIe3.0 x8)

VGG-X6UX-XX-XXX

MILITARY RUGGEDNESS SOLID AS A ROCK



V&G 6U VPX memory card has onboard 8 modules of NAND Flash SSD which has independent controller in each module. Each module can work independently and can be RAID to have a maximum output performance and capacity. The 8 modules will have a total of 16 TB which is managed and controlled by SATA 6Gbps controller. The SSD controller has built-in modules such as bad block management, loss balance and error correction to ensure high operating speed reliability and reduce load on the host processor.

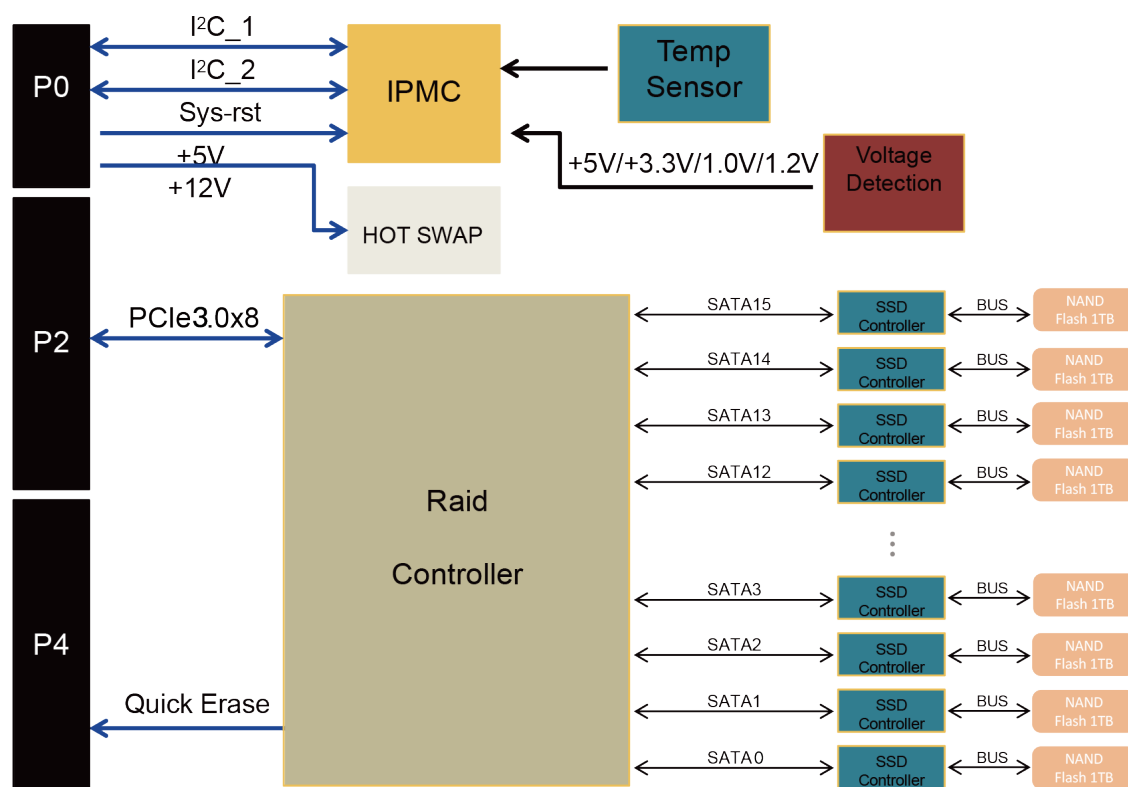
The 8 SSD modules are connected into RAID Controller for optimum performance (RAID0 striping), highest data integrity (RAID 1 – mirroring), and support RAID 5, 6, 10, 50 and JBOD functions. V&G 6U VPX memory card in line with the standard VITA46, VITA48, VITA65, support PCIe3.0 x8, the military industry applications in high-end storage systems.

FEATURES

- Built-in ECC (Error Correction Code) wear-leveling and bad-block management functionality.
- Support write protect functionality
- Support One-Key Intelligent Destruction
- Support various operating systems: Windows, Linux, Solaris, China Kylin, and VxWorks
- PCIe 3.0 x8 (VPX)
- Built-IN RAID controller and hardware RAID
- Support RAID 0, 1,5,6,10,50 and JBOD.
- Complete SATA, PCI/PCIe convert to SATA controller and NAND Flash
- SSD basic solution

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: ≈2 kg |
| Capacity | MLC: 2TB ~16TB SLC: 1TB ~8TB |
| RAID | Support RAID 0,1,5,6,10,50 functions |
| Input Voltage and Power Consumption | Input Voltage: 5V/12V ± 5% Power Consumption: 80W(Active) 15W(Idle) |
| Operating System and Software | Windows、MAC、Linux、Unix、Solaris、China Kylin、and VxWorks... |
| Performance | Sequential Read: 5 GB/S Sequential Write: 4 GB/S Random Read (4k) IOPS: 200,000 Random Write (4k) IOPS: 160,000 |
| 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 |