



**SILK SYSTEMS™**  
*We don't sell. We offer. Solutions as smooth as silk.*

**FOR MORE INFORMATION**  
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**With Silk Systems you will get**

A simple and direct approach to develop an efficient engineering solution for whatever the client needs

Our client centric approach means that we put our client's needs first to make sure the project goes as smoothly as possible. Acting as one, single-mindedly focused on delivering S.I.L.K. to the business of our customers

S – Strategy

I – Innovation

L – Longevity

K - Knowledgeability

Easy to read the quotes. Services as needed, including the ability to add extra services should the need arise.

Our engineers work side by side with clients through direct contact, to ensure the project and entire process runs as smooth as silk.

**6U VPX Removable Storage plus PCIe3 Gen 3.0**  
**Embedded/Military Sapphire Series**

**Product Highlights**

Our Sapphire Series Removable Storage 6U VPX memory card fully conforms with VITA specifications and is hot -pluggable. The hardware design consists of a data storage module and a RAID module with support for both air-cooled and conduction-cooling systems.

The Samtec Connector supports 10,000 mating cycles making this ideal for Aerospace, RADAR, and any other Real-time Data acquisition spaces. It also features one-click (quick erase) data deletion functionality. The VPX meets all GJB vibration level standards, electromagnetic standards and other military environmental requirements.



**Product Specifications**

Model Name	Sapphire Series Removable Storage		
Form Factor	6U VPX 5HP		
Protocol	PCIe3		
Solution	LSI	Marvell	
Capacity	SLC	8TB (Maximum)	
	MLC	16TB (Maximum)	
Removable Storage	SATA 3		
Performance	Sequential	Read	Up to 3.32 GB/s (max)
		Write	Up to 3.0 GB/s (max)
	Random	4KB Read	Up to 80K IOPS
		4KB Write	Up to 80K IOPS
Operating Temperature	0°C to +55°C	-40°C to +85°C	
Air Flow	Conduction Cooled (Optional)	Air Cooled	
Power Features	Power Supply	12V (±5%, 2.5A); 5V (±5%, 10A)	
	Power Consumption	≤60W (Maximum)	
Physical Features	Dimension	269mm x 212mm x 25mm	
	Weight	≤ 1.5kg	
Data Security	AES 256-bit Encryption		
	Supports ATA Command Data Erasure		
	Supports one-key data erasure (GPIO external pin)		
Standard Compliance/ Support	MIL-STD 810G, VITA 46.0, VITA 46.4		
Warranty	1 Year		

PRELIMINARY

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