

L-3 Targa Systems VME & cPCI SSD Storage

OVERVIEW

Targa's VME and cPCI form factor SATA / USB SSD Storage modules have been specifically designed to replace hard disk drives in rugged and environmentally demanding applications. The single slot, module design is based on 2.5" FLASH SATA disks and is available in both convection cooled and conduction cooled form factors and is available with a user selectable SATA or USB interface, single or dual disk versions.

- SATA 1.5Ghz or USB Mass Storage Device / Bulk Transport
- Ruggedized, high reliability, solid state design, no moving parts
- SATA and USB interconnect via backplane
- Single slot Capacity: 32GB – 128GB per disk
- Dual slot Capacity: 256GB per disk
- Low power consumption
- Special Features: Write protect and Erase/Sanitize - options

PRODUCT MODEL NUMBERS

Targa's SSD Storage modules are available in a broad range of memory capacities and environmental classifications. The product model designations are:

Single Disk		
VME – 6U	cPCI – 6U	cPCI – 3U
VME25/SAn-d1-ee	CPCI625/SAn-d1-ee	CPCI325/SAn-d1-ee
Dual Disk		
VME – 6U	cPCI – 6U	n/a
VME25/SAn- d1-d2-ee	CPCI625/SAn-d1-d2-ee	n/a

SAn	Disk ID	dn	disk capacity	ee	environmental class
Contact Targa for details			32G; 64G; 128G; 256G	00	Basic
				20	Extended
				50	Conduction Cooled



Conduction Cooled Units



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VME & cPCI SSD Storage Module SPECIFICATIONS

Targa's Solid State Storage Solutions are available in a wide range of form factors and interfaces.

- 6U VME SATA, USB, ATA
- 6U cPCI SATA, USB, ATA
- 3U cPCI SATA, USB
- PC Card DTU's
Ethernet NAS, SATA, USB, Serial, SCSI,
- Removable Disk Systems
Ethernet NAS, USB, SATA
- USB Flash Disks - 3.5"

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	VME25	cPCI625	cPCI325
Form factor	6U IEE1014-1987	6U PICMG 2.0 R3.0	3U PICMG 2.0 R3.0
Power +5Vdc	4.85 – 5.25Vdc 1.25A – single 2.5A - dual	4.85 – 5.25Vdc 1.25A – single 2.5A - dual	4.85 – 5.25Vdc 1.25A
+3.3Vdc	-	3.15 – 3.45Vdc 0.75A	3.15 – 3.45Vdc 0.75A
Weight (nominal)			
ee = 00; 20	450 g	450 g	300 g
ee = 50	750 g	750 g	375 g

Interface ¹	SATA 1.5Ghz, ATA-7, SATA 2.6	USB 2.0 Mass Storage – Bulk Transport
Transfer Rates ²	> 30 MB/sec	> 10 MB/sec

1. Only one interface active at any one time, auto detected at power on.

2. Transfer rates are dependent on the SATA "disk ID" type and data transfer block size. Rates as stated were measured for a 500MB transfer using an /SA3 disk with 16KB block size.

Data Integrity	Static wear leveling and ECC/ECD (reed Solomon) defect management		
Write Endurance	> 200 years @ 200GB/day for a 64GB unit		
Data Integrity	> 10 Years at 25C		
Front Panel LEDs	Power	Busy	Write Protect
Disk Options		/SA3	/SA4
Write Protect		√	-
Erase	H/W activated	√	-
	S/W Command	√	√
Sanitize	H/W activated	√	-
	S/W Command	√	-

Environmental	Basic (-00)	Extended (-20)	Conduction Cooled (-50)
Operating Temperature	0°C to +60°C	-40°C to +85°C	-40°C to +71°C
Storage Temperature	-55°C to +95°C	-55°C to +95°C	-55°C to +95°C
Altitude	50,000 ft	50,000 ft	50,000 ft
Ascent, Descent	10 m/s, 13 m/s	10 m/s, 13 m/s	10 m/s, 13 m/s
Humidity	10 – 85%	----- 10 – 100% with condensation -----	
Shock	n/a	8g, 11ms, ½ sine	20g, 11ms, ½ sine
Vibration	n/a	0.02 g ² /Hz 5 to 2000 Hz	0.04 g ² /Hz 5 to 2000 Hz
Stiffening Ribs	No	Yes	Yes
Conformal Coat	No	Yes	Yes