

# Targa High Performance SCSI Flash Disks

## VME 25 - SCSI Flash Disk

### OVERVIEW

Targa's Solid-State SCSI Module has been specifically designed to replace hard disk drives in rugged and environmentally demanding applications. The single slot, 6U VME card is currently available in the VME convection cooled and conduction cooled form factors.

- Ruggedized, high reliability, solid state design, no moving parts
- Up to 24 Gbytes of FLASH memory as 3 independent 8 GB SCSI drives
- Single slot – 6U VME
- Dual slot version – capacity >90 GB – consult Targa
- SCSI-1, SCSI-2 & SCSI-3 (ultra) compatible, 8 bit (SCSI narrow)
- Fast Access time < 0.2 msec
- Low power consumption
- Noiseless operation
- MTBF: 500,000 hrs (MIL-STD-217, GB)
- Write Protect and High Speed Erase features

### PRODUCT MODEL NUMBERS

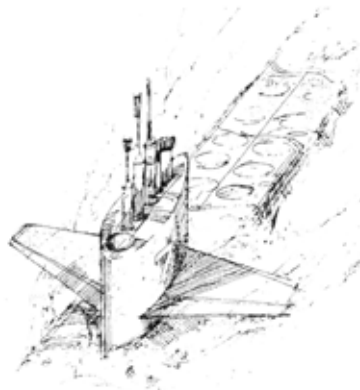
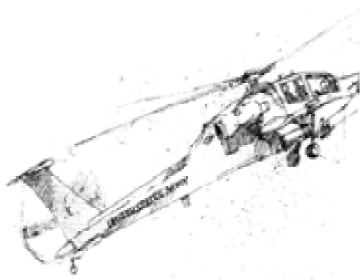
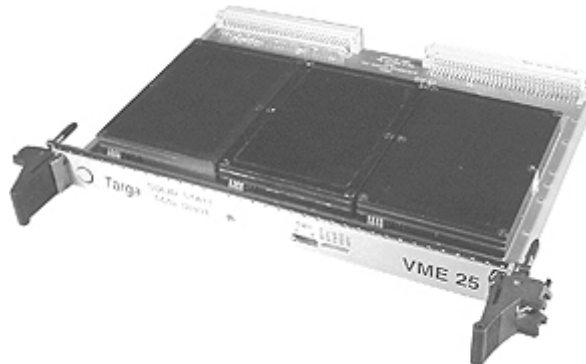
Targa's VME25 SCSI module is available in a broad range of memory capacities and environmental classifications. The product model designations are:

VME25 / A - cc - ee

A        F = Fast SCSI  
           U = Ultra SCSI  
 cc        capacity = cc x 100 MB  
 ee        environmental class

Sample Model Numbers (these are examples only)	Capacity (MBytes)			Environmental Classes	
	1 <sup>st</sup> Drive	2 <sup>nd</sup> Drive	3 <sup>rd</sup> Drive		
VME25/F-6-ee	600	-	-	Basic	-00
VME25/U-25-ee	2500	-	-	Enhanced	-10
VME25/F-25-12-ee	2500	1200	-	Extended	-20
VME25/U-12-5-ee	1200	500	-	Conduction	-50
VME25/F-102-102-102-ee	10200	10200	10200		

Single drive capacities available; any combination up to 3 drives on a board:  
 cc = 1 (128 MB), 2 (256 MB), 5 (512 MB), 6 (640MB), 12 (1.28 GB),  
 25 (2.56 GB), 51 (5.1 GB), 82 (8.2 GB)



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

- VME SCSI  
6U, single slot
- PC Card DTU's  
Serial; SCSI; 1553, USB
- SCSI Flash Disks  
3.5" and 2.5"
- IDE Flash Disks  
3.5" and 2.5"
- Removable Disk Systems  
3.5" and 2.5"

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## VME25 SPECIFICATIONS

	VME25/F	VME25/U		
<b>Access Time</b>	< 0.2 ms	< 0.1 ms		
<b>Sustained Read Rate</b>	> 9 MBytes/sec	> 18 MBytes/sec		
<b>Sustained Write Rate</b>	> 9 MBytes/sec	> 18 MBytes/sec		
<b>Read Bit Error Rate</b>	> 10 <sup>-20</sup>	> 10 <sup>-20</sup>		
<b>Entire Media Erase</b>	2 sec/GB typ	2 sec/GB typ		
<b>SCSI Compatibility</b>	8 bit SCSI narrow			
VME25/F	ANSI SCSI-2 Standard X3.131-1994			
VME25/U	ANSI SCSI-2 Standard X3.131-1994 and ANSI SCSI-3 Standard X3T10/107D			
<b>Power Requirements</b>	4.85 - 5.25 Vdc 0.7 - 1.5 Amp (Configuration Dependant)			
<b>Reliability</b>	Built-in EDC / interleaved Reed Soloman ECC			
<b>Data Reliability</b>	1,000,000 cycles per FLASH manufacturer's specification			
<b>Endurance</b>	<10 <sup>-30</sup>			
<b>Undeleted Data Error</b>	500,000 hrs (MIL-STD-217 GB, per 512MB; preliminary)			
<b>MTBF</b>				
<b>BIT Features</b>	Yes, Power-up Self Test			
<b>Data Integrity</b>	10 Years			
<b>Form Factor</b>	6U, single slot per IEEE 1014-1987 Convection 6U single slot per IEEE 1101.2 Conduction			
<b>Front Panel – Indicators:</b>	Power (green) – Busy (green) Write Protected (yellow)			
<b>Switches:</b>	Write Protect Enable SCSI Terminators On/Off			
<b>Weight</b>	500 - 800 grams (Configuration Dependant)			
<b>Environmentals</b>	<b>Basic (-00)</b>	<b>Enhanced (-10)</b>	<b>Extended (-20)</b>	<b>Conduction Cooled (-50)</b>
Operating Temperature	0°C to +60°C	-20°C to +75°C	-40°C to +85°C	-40°C to +71°C
Storage Temperature	-50°C to +85°C	-50°C to +85°C	-50°C to +85°C	-50°C to +85°C
<b>Altitude</b>	50,000 ft	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	10 m/s, 13 m/s
<b>Humidity</b>	10 – 85%	----- 10 – 100% with condensation -----		
Shock	n/a	----- 8g, 11ms, ½ sine -----		20g, 11ms, ½ sine
Vibration	n/a	----- 0.04 g <sup>2</sup> /Hz, 5 to 2000 Hz -----		
<b>Stiffening Ribs</b>	No	Yes	Yes	Yes
<b>Conformal Coat</b>	No	Yes	Yes	Yes

Specifications are subject to change without notice.

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