

# SCSI to SATA Conversion Module

## 6U VME with Dual Front Removable Drives



### Description

SCSI drives are increasingly scarce but your old interface isn't going away just yet. The 5056 solves that problem by providing either narrow SCSI or SATA interface connectivity in a single card with dual front removable drive canisters. This 6U VME dual slot module utilizes leading edge 6Gbps SATA III drives each of which can be accessed via a narrow SCSI interface or via front panel eSATA ports. The 5056 supports your old interface needs and with the flip of a switch it's ready for the future with eSATA connectivity as well.

### Features

- Front dual drive removability
- Change over between narrow SCSI and SATA operation via dip switch settings
- Each SATA drive is connected to a separate narrow SCSI bus or SATA port
- Front panel drive activity LEDs are provided for both drives
- Commercial temperature operation from +5°C to +55°C.
- Individual drive sleds are removable and not hot swappable
- Front panel rotary switch to select the SCSI address of each drive
- 2.5" SATA Gen II or Gen III HDD or SSD drives are supported
- One front narrow SCSI port, one rear and dual front eSATA ports
- RoHS Compliant

### Benefits

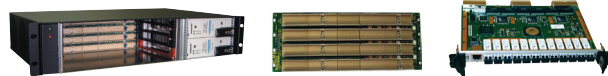
- Maintain your old storage interface while upgrading to leading edge drive technology
- One product supports both legacy and future storage interface requirements
- Eliminates the need for costly device driver and operating software changes
- Eliminates reliance on disappearing SCSI drives
- Addresses high capacity storage needs
- Easy system upgrade, data transport or maintenance with front removability

## Applications and Related Products

- Legacy computing systems which require upgrades to storage subsystems while maintaining backward compatibility to legacy interfaces and operating systems
- High capacity storage requirements for a wide range of defense applications including ground, shipboard and airborne systems
  - Signal intelligence data storage
  - Engine control systems data
  - Mission data storage

### Example Order Number: 5056200512GBSSMNS

Model 5056 with two 512GB MLC solid state drives, no conformal coating for use in commercial temperature environments



- Intel & Freescale Single Board Computers
- Blade level networking boards (Ethernet, PCI Express)
- FPGA configurable I/O solutions
- Rackmount, desktop, and ATR chassis platforms
- Ruggedization programs

**VME**

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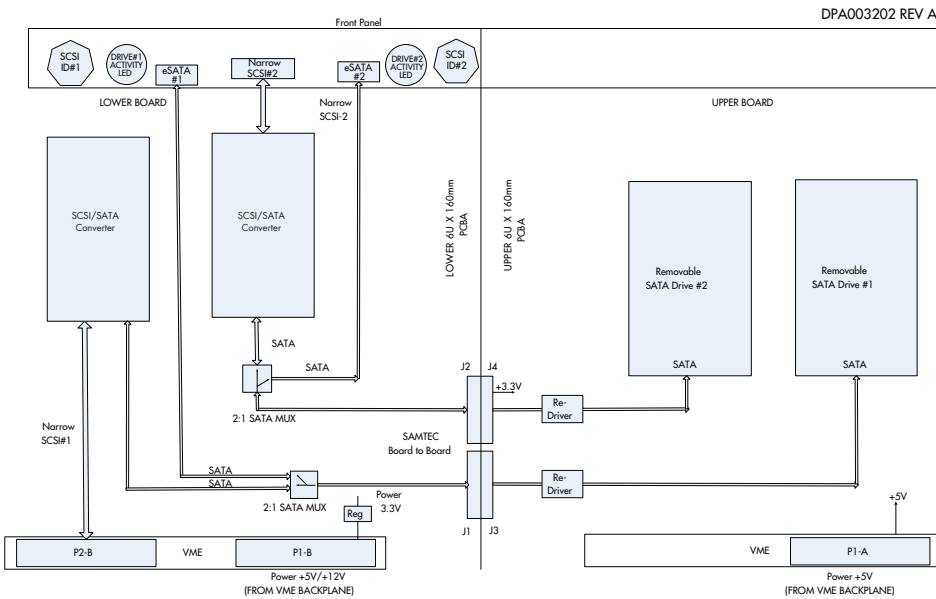
Storage

VITA

### Block Diagram and Environmentals

Specification		With Typical HDD	With Typical SSD
Temperature	Operating (Ambient)	+5 to +55 C	+5 to +55 C
	Non-operating	-40 to 65 C	-40 to 65 C
Relative Humidity	Operating	8% to 90% Non-condensing	5% to 95% Non-condensing
Vibration	Operating	1G (5 to 500 Hz)	5G (10 to 2000 Hz)
Shock	Operating	350G (2 ms)	20G (11 ms)
Altitude	Operating	-300 to 3,048 m (10,000 ft)	80,000 ft

Shock and vibration values are media dependent.



#### General

The 5056 is a 6U x 8HP x 160mm sized module and contains upper and lower 6U x 160mm PCB assemblies

- Upper PCBA – Removable SATA drives
- Lower PCBA – SATA to SCSI Conversion, Power Conversion and I/O Interface

#### Input / Output

When attached to a host Single Board Computer (SBC), the 5056 provides front panel access for narrow SCSI or eSATA for up to two 2.5" SSD or rotating drives from the host system. Additional narrow SCSI access via rear P2

#### Compatibility

The 5056 is directly compatible with 6U VME system architectures including single board computers and system chassis.

#### Power Requirements

- 5V ±5% @ .004A 3.3V ±5% @ 0.16A
- Typical HDD, add 5V ±5% @ 1.1A
- Typical SSD, add 5V ±5% @ 0.8A

### Order Information

5056

#### Configuration

- 1 = One 2.5" drive
- 2 = Two 2.5" drives

#### Drive RPM

- 54
- 72
- 00 (solid state drive)

#### 2.5" Drive capacity (configuration 2 – both drives same capacity)

- xxxG
- xxxT
- Example
- 500G = 500GB drive
- 012T = 1.2TB drive

#### Drive Type

- RSD = standard duty rotating
- RED = enhanced duty rotating
- RXD = extended duty rotating
- SSS = commercial solid state SLC

- SSM = commercial solid state MLC
- SSE = commercial solid state eMLC
- STS = extended temp solid state SLC
- STM = extended temp solid state MLC
- STE = extended temp solid state eMLC

#### Conformal Coating

Y / N

#### Temperature Requirements

- S = +5°C to +55°C
- O = Other

\*Consult Elma for the complete range of available drive capacities.