

Dual Slot VME Disk Module converts SATA to SCSI for legacy systems provides a highly efficient solution to upgrade legacy SCSI storage for 6U VME based systems.

Replace aging SCSI based VME disk modules with the EDM2 from Elma Electronic. The EDM2 offers the latest in Serial ATA (SATA) drive technology combined with a SCSI to SATA converter, so a system will recognize it in the same way as legacy SCSI hardware. The EDM2 provides a seamless transition to the latest in storage technology, and helps avoid costly end-of-life (EOL) issues associated with SCSI technology. Optional secure erasure and write protection along with conformal coated and extended temperature versions complete the EDM2 feature set to provide years of reliable service.

Key Features:

- Latest SATA drive technology in a legacy footprint
- Optional write protection and hardware enabled secure erasure with front panel activation in configurations using solid state drives
- Single or dual rotating or solid state drive configurations
- Available with conformal coating and temperature ranges up to 0°C to +70°C
- Accepts drives up to 12.5 mm thick for up to 2TB of storage in two 6U x 8HP (1.6"W) slots. Consult Elma regarding higher capacity requirements.
- Ultra320 SCSI interface with front and/or rear Wide SCSI interface connections
- Automatic front / rear I/O termination
- SCSI ID select via front rotary switches
- Software: VxWorks, Linux and Windows. Inquire about specific versions and host cards.



Consult Elma on maximum available drive capacity.

Key Benefits:

- Greatly simplifies EOL legacy transitions
- Form, fit, and function replacement for old SCSI disk modules
- The EDM2 uses SATA drives to update legacy solutions and provide a long term roadmap for seamless storage upgrades
- Optional write protection and secure erasure with solid state drive configurations provide an added measure of security for critical data volumes

The EDM2 supports the following secure erasure standards with optional solid state drives:

- Clear
- Fast Clear and Initialize Drive (Default Setting)
- Sanitize per DOD NISPOM 5220.22-M
- Sanitize per DOD NISPOM 5220.22-M Sup 1
- Sanitize per NSA/CCS 130-2
- Sanitize per Army AR 380-19
- Sanitize per Navy NAVSO P-5239-26
- Sanitize per Air Force AFSSI-5020
- Sanitize per RCC-TG IRIG 106-07
- Sanitize per NSA/CSS 9-12



SBCs



I/O



Software



Design & Documentation



Chassis

Ethernet Switches



ACT/Technico™ brand of Embedded Computing Products

Interface

- Ultra320 SCSI interface with front and/or rear Wide SCSI interface connectors. Front SCSI through HD68 female connector (both screw down and latching interface.) Rear SCSI through the VME P2 96 position DIN connector
- A rear P2 Adapter PCB that transitions the SCSI signals to a HD68 female connector is standard with the rear I/O version

Electrical Specifications

+5V @ 2.5A typical

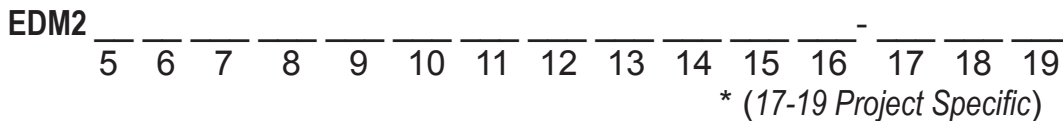
Compatibility

The EDM2 VME Disk Module is compatible with many PowerPC and Intel based Single Board Computers and has been qualified using Windows, Linux, and VxWorks operating systems. Contact Elma for details on specific versions.

EDM2 Module Assembly Environmental Specifications

Physical dimensions	
Size	6U high x 8HP wide x 160mm deep
Weight	~2.85 lbs (media dependent)
Data Transfer Rates	Up to 44 MB/sec Up to 44 MB/sec
	Read/write speeds are highly dependent on system SCSI bus size/controller, operating system and media type
Shock	
Operating	400Gs at 2 ms half sine 10Gs at 11ms, consult Elma regarding extensions
	Shock tolerance is highly dependent upon media type.
Vibration	
Operating	1G peak at 5Hz to 500Hz Consult Elma regarding drive specification
	Vibration tolerance is highly dependent upon media type
RoHS Compliant	No

EDM2 Dual Slot VME SCSI Disk Module Keying



(5) Configuration

- 1 = One rotating drive
- 2 = Two rotating drives
- 3 = One solid state drive (SSD)
- 4 = Two solid state drives

(6,7,8,9,10) Each Single Drive Capacity

- xxxxG
- xxxxT

Ex. 0064G = 64GB drive
 0500G = 500GB drive
 01P2T = 1.2TB drive (when TB drives become available)

(11) Write Protect (Rotating or SSDs)

- Y / N

(12) Secure Erase and Write Protect (SSDs only)

- Y / N

(13) Front SCSI connector

- Y / N

(14) Handle Configuration

- S = SCANBE handles, no EMC shielding Erasure level choice as well as specific drive requirements if any are to be included in the order description.
- I = IEEE handles, EMC shielding

(15) Conformal Coating

- Y / N

(16) Temperature Requirements

- S= +5°C to +55°C
- E = 0°C to +70°C
- O = Other

Consult Elma for the complete range of available drive capacities. Special configuration requirements should be included in the order description.



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