



# SCSI Hard Drive, Flash Drive, Tape Drive VMEbus Multi-slot Mass Storage Module



## Compatibility

Works with CPUs from all manufacturers using SCSI, and Floppy interfaces.

## Hard Drive Performance

- Ultra SCSI transfer rates
- MTBF up to 1,000,000 Power on Hours

## Hard Drive Capacity

- Up to 240GB in one VMEbus slot
- Up to 600GB in two VMEbus slots

## FLASH Drive Capacity

- Up to 64GB in one VMEbus slot
- Up to 352GB in two VMEbus slots

## Additional Media Types Available

- 4mm DAT Tape
- AIT Tape
- Floppy Drive
- PCMCIA Adapter w/SCSI Interface

## ***Red Rock Technologies' pluggable mass storage modules enable:***

### **Fast, efficient field replacement**

Mass storage subsystem replacement within a couple of minutes... literally.

### **Securable data storage**

Module or media may be removed for secure storage of sensitive programs and/or data.

### **Extremely high density mass storage Within the card cage. Saves space.**

Very beneficial in systems where space is limited and volume must be kept to a minimum.

### **Instant software upgrade**

Install and test off-line, then simply plug in to upgrade.

### **Hardware upgrade**

Quickly add different types of drives for increased capacity and performance.

### **Fast reconfiguration of systems**

By having several mass storage modules configured with different Operating Systems, versions of OS, drivers, etc., it is possible to reconfigure your computer system for a different task in a matter of minutes by simply replacing the mass storage module.

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## Typical Drive Specifications

### Hard Drive

- **Capacities** - Highest capacities as they become available
- **Interface** - SCSI-2, Ultra, U320 SCSI, Narrow, Wide Ultra LVD/SE
- **Transfer Rate** - Up to Ultra320 SCSI rates
- **Average Access** - Drive dependent, fast as <5mS
- **Operating Temperature** - 5 to 55° Centigrade
- **Relative Humidity** - 5 to 95%
- **Altitude** - (OP./Non-OP)  
Up to 10,000' / Up to 40,000'

### Flash Drive

- **Capacities** – up to 352 GBytes
- **Interface** – U320 SCSI

### PCMCIA to SCSI Adapter

- **Type I, II and III compatible**
- **Supports PCMCIA ATA Flash**
- **Supports PCMCIA ATA Disks**
- **Interface** - Ultra LVD SCSI, SCSI-2

### Floppy Drive

- **Capacities** - 720 Kbytes and 1.44 MBytes
- **Interface** - SA-450 standard or 8-bit SCSI-2
- **Transfer Rate** - 250 or 500 KBPS

### 4mm DAT Tape

- **Capacities** – up to 72.0 Gbyte with compression
- **Interface** - SCSI-2, LVD/SE Wide Ultra
- **Transfer Rate** - 233 KB/S to 6 MB/S sustained

### AIT Tape

- **Capacities** – up to 200 GB
- **Interface** – LVD/SE Wide Ultra
- **Transfer Rate** – up to 12 MB/S

## Physical Characteristics:

Modules are two, three or four slots wide, depending on configuration, 6U high and 160mm deep per VMEbus IEEE Std 1024-1987 specifications.

## I/O Connections:

I/O connections can be made either through the P2 connector, the front panel or both. P2 connections are made through Rows A and C only of the VMEbus P2 connector.

Front panel connections are made through the standard “micro D” style high density connector. BUS GRANT and IACK signals are by-passed to the next slot.

Power is taken from the VMEbus. No separate power supply is needed. DIN connectors are selectively loaded for minimal insertion force.

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## Optional Accessories:

### Model No. P2IO-01

I/O panel which routes 8-bit SCSI and standard floppy drive signals from the storage module’s P2 connector to 50 and 34 pin standard dual row header connectors. Plugs into the back of the VMEbus backplane and makes connections to rows A and C and row B ground pins of the P2 connector. Used to make connections to CPU’s P2 connector.

### Model No. P2IO-02

I/O panel which routes 16-bit SCSI and standard floppy drive signals from the storage module’s P2 connector to 68 pin “micro D” female and 50 and 34 pin standard dual row header connectors. Plugs into the back of the VMEbus backplane and makes connections to rows A and C and row B ground pins of the P2 connector. Used to make connections to CPU’s P2 connector.

### Model No. P2IO-03

I/O panel for use with the VME64 5-row backplane. Routes 16-bit SCSI and standard floppy drive signals from the storage module’s P2 connector to 68-pin “micro D” female and 50 and 34 pin standard dual row header connectors. Plugs into the back of the VME64 backplane and makes connections to signals on rows A and C and to ground pins of rows Z and B of the 5-row P2 connector. Used to make connections to the CPU’s P2 connector.

### Model No. P2IO-04

I/O panel which routes 16-bit LVD SCSI drive signals from the storage module’s P2 connector to 68 pin “micro D” female connector. Plugs into the back of the VMEbus backplane and makes connections to rows A and C and row B ground pins of the P2 connector. Used to make connections to CPU’s P2 connector.

### Model No. P2IO-05

I/O panel for use with the VME64 5-row backplane. Routes 16-bit LVD SCSI drive signals from the storage module’s P2 connector to 68 pin “micro D” female connector. Plugs into the back of the VME64 backplane and makes connections to signals on rows A and C and to ground pins of rows Z and B of the 5-row P2 connector. Used to make connections to CPU’s P2 connector.

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## Notes:

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