

For Data General MV Systems

SCZ-6 Controller Implements Fast SCSI-2 for Higher Performance

Zetaco's SCZ-6 is a high-performance, multifunction peripheral controller that implements fast SCSI-2 technology with 10 Mhz data transfer rate -- resulting in a notable performance achievement of 260 transactions per second!

This versatile controller supports magnetic disks, half-inch reel-to-reel tape, helical scan tape, and rewriteable optical disks, simultaneously from the one unit.

Designed for Data General's MV series computers, the SCZ-6 combines full DPJ (disk) and MTJ (tape) compatibility with a high speed asynchronous/synchronous SCSI peripheral interface.

Compatibility with DPJ provides emulation of Data General's latest disk subsystems, such as 6786/6787, and supports advanced features such as disk mirroring, dual porting, and seek/latency overlap.

Compatibility with MTJ provides emulation of Data General's latest tape subsystems and supports full use of Data General utilities.

Designed For High Performance

SCZ-6 supports synchronous SCSI and fast-SCSI-2 disks with a burst transfer rate to 10 MB/sec. This allows higher performance with large data block transfers and minimizes bus utilization when the controller is supporting a large number of drives.

The low command overhead of the SCZ-6 controller provides much higher performance than Data General's older controllers that have high overhead. Low overhead is important because it occurs on every transaction and can not be hidden like seek or rotational latency overheads.

The SCZ-6 achieves a true 260 TA/sec data transfer rate, even counting seek time. If seek times are ignored and just the raw I/O time is counted, the TA/sec would be as high as 520 in subsystems configured with up to seven disk drives.

Configure a System with the Various Media You Need

SCZ-6 enables you to design exactly the data storage system you need for your applications and usage, using various SCSI-interfaced peripherals. SCZ-6 supports up to 7 SCSI targets, which means you can choose any combination of:

- * Fast magnetic disk for frequently accessed files
- * Low-cost/high capacity rewriteable optical disks for large on-line libraries
- * High-capacity, highly reliable helical scan tape (either 4mm or 8mm) for unattended backups
- * Standard half-inch reel-to-reel tape

You can start with just one or two peripherals, and keep adding more capability and more capacity as needs develop. Additions are low-cost since other controllers are not required.

Zetaco *please turn over....*

CARLISLE

Full System Compatibility

SCZ-6 is compatible with AOS/VS and AOS/VS II, on Data General MV systems equipped with the BMC bus, including:

MV/4000 MV/8000 MV/20000 MV/30000
MV/7800 MV/15000 MV/40000

Advanced Controller Hardware

SCZ-6 employs two microprocessors, one to manage the peripheral interface and one to manage the Data General interface. The controller firmware is programmed in C for easier maintainability, faster updates, and more design flexibility. Controller firmware, which previously resided on magnetic disks, is now resident in PROM firmware on the controller.

The SCZ-6 has integral installation and diagnostic features that make it easy to install and reliable to use, including self-test on power up, device address switches on the edge of the controller, configuration software, and controller and peripheral verification tests.

Monitoring Software

Zetaco's built-in software programs let the system administrator monitor the peripherals attached to the controller. The 4 programs, included free with every SCZ-6, report device status, perform tape rewind/eject, and choose tape density for formatting.

Deliverables

Delivery is 30 days ARO. Here's what you can expect:

- * SCZ-6 controller with protective cover
- * Backplane interface paddleboard and internal cable
- * Set of two BMC jumper cables
- * BMC terminator plug
- * Software Support Tape
- * Technical Manual

Optional external SCSI cables of various lengths are also available.

SCZ-6 Controller Specifications

Emulation: Data General's DPJ and MTJ

SCSI Targets Supported: up to 7

Drives Supported: Magnetic disk, 9-track magnetic tape, helical scan tape, rewriteable optical disk. Contact Zetaco for information on tested peripherals.

Bus Interface: Data General's BMC (Burst Multiplexor Channel)

Operating Systems: Data General's AOS/VS and AOS/VS II

Drive Interface: Asynchronous or Synchronous SCSI-2. Please specify single-ended or differential at time of order.

Data Transfer Rate: Supports maximum transfer rate of synchronous SCSI bus:
5 MB/sec sustained, 10 MB/sec burst.

Slot for Controller: Requires an "I/O Only" slot in the Data General CPU

IOC support: up to four Input/Output Channels

Power: +5 volts DC @ 9.5 amps
-5 volts DC @ .45 amps

Dimensions: 15" X 15" (38 cm X 38 cm)

Cable: Differential up to 25 meters (82 ft)
Single-ended up to 6 meters (19.7 ft)

Warranty: 2 years from date of purchase

Shipping Weight: 10 lbs (4.5 kg)

Zetaco continually strives to improve its products and may, therefore, modify or deviate from the specifications and descriptions presented in this document without prior notice.

March 1992

For information on pricing and delivery, please call us toll-free: 1-800-423-3020.