

RK05/DIABLO/PERTEC Drives Upgraded to SCSI

- DEC RK05, RK11
- Pertec D3000 Series
- Diablo 3000, 4000 Series
- Interdata / Perkin & Elmer
- Northern Telecom
- Sperry / Univac
- Xebec Controller
- Digital PDP-8, PDP-11
- Data General Nova, Eclipse
- Boroughs
- Control Data - System 17
- CDC Hawk
- Western Dynex
- Wangco
- Mitra
- Alcatel
- Varian
- Foxboro
- Cyber 1784
- Bull
- Tempo / GTE
- Litton



*Rack Mount AEM-5C with two Magneto Optical Drives
emulating a disk drive with both fixed media and removable cartridge.*

Improved Performance and Capabilities: Featuring:

- Full-Disk Caching - Seek Times Eliminated.
- Multiple Volumes on a single drive.
- Power Reduced 85%, Weight Reduced - 24 lbs total.
- 300,000 to 1,000,000 Hr drive MTBF.
- Continuous Self-test.

NEW capabilities for drives.

Optional Features:

- Backup to second disk, 4 mm DAT, QIC tape or Optical disk.
- Internal Mirroring and On-line Copy.
- Removable Disk Drives or Cartridge for Backup.
- Disk to Disk Image Copy.

PLUG-COMPATIBLE WITH VINTAGE CARTRIDGE DRIVES

The AEM-5C is an upgraded data storage system to replace hard disk drives using the Diablo/Pertec interface. Merely unplug the existing drive and install the AEM-5C using the same cables.

The AEM-5C can be added to an existing system, along with the present drives. The AEM-5C can be daisy-chained to existing drives or to other AEM-5Cs.

MAINTENANCE FREE / DEFECT FREE

The AEM-5C uses SCSI disk drives for low maintenance operation. Drives are rated in excess of 300,000 hours MTBF and up to five years of continuous operation. Drives appear defect-free to the host computer.

FULL-DISK CACHING

The AEM-5C includes Full-Disk Caching. The entire drive image is held in cache memory. Changes in the cache memory are continuously transferred to the SCSI storage device, which can be a hard disk, or MO drive. Full-Disk Caching also provides a faster performing emulation. Seek times, head switching and blocking times are eliminated. Data is available instantly, providing 30% to 50% faster operation than the original drive.

MORE DATA STORAGE

Multi-Volume provides additional storage by creating multiple images in separate volumes on the SCSI device. With sufficient space, 8 or more volumes can be stored on the SCSI device. Internal software allows copying between volumes. The front-panel Multi-Volume thumbwheel switch allows user selection of the active and bootable volume. Changing the thumbwheel switch during operation will spin the drive down, change the "pack", and spin the drive back up, all in less than a second.

OFF-LINE BACKUP, DISK COPY

The Off-line Backup Option allows the user to backup or copy the drive image to a removable SCSI disk or MO drive. Backup to disk is quick at 100 MB/min. An off-line backup to DAT or QIC tape can be done at 15 to 30 MB/min.

DISK MIRRORING

Internal Disk-to-Disk Mirroring Option adds on-line copy to the AEM-5C. Alternating reads continually assure the user of a valid mirror. Disk to disk mirroring provides a continuous, on-line, backup of critical data.

REDUCED POWER, COOLING AND WEIGHT

The AEM-5C uses significantly less power and requires less cooling than the drives it replaces, up to 85% less.

The weight of the AEM-5C is just 23 lbs, a 50% or greater reduction!

FIRMWARE CONFIGURABLE

Drive emulation parameters may be changed via serial interface, RS-232 port with a front panel modular connector. Parameters such as number of heads, cylinders, track size, sector size, etc., are easily configurable by the user or maintenance personnel. This flexibility allows the AEM-5C to be reconfigured in the field by the user to emulate other disk drives. Software updates and some optional features can be downloaded and installed in the AEM-5C using an IBM compatible PC.

MANY CONFIGURATIONS AVAILABLE

The AEM-5C is available with fixed or removable SCSI drives and numerous options. The combination of highly reliable drives and new capabilities provide a dramatic upgrade to computer data storage.



An AEM-5C in an RMA, 19" rack mount enclosure. The Alpha-Numeric operator panel provides for selection of up to 99 volumes and 'up-front' control over Backup and Restore operations.

SPECIFICATIONS

INTERFACE

Diablo/Pertec interface. DEC RK05

Control/Maintenance: RS-232 serial port, ASCII (8, N, 1), front panel RJ-11 modular connector.

DATA TRANSFER RATE

2 to 8 Mbits/sec typical.
24 Mbits/sec maximum, controller regulated.

EMULATION

All parameters programmable
Cylinders 203, 406

Heads 2 per platter

Track Length Programmable

Sector Length Programmable

CACHE BUFFER

Size 128 to 2048 MBytes
Capacity 1 to 2048 Tracks

SEEK TIMES, TYPICAL *Drive and Emulation Dependent*

Track to Track 0 - 20 ms
Average 4 - 18 ms
Maximum 20 - 30 ms
Average Access 11 - 28 ms
Average Latency 6.2 - 8.4 ms

RELIABILITY

MTBF 200,000+ hours
MTTR 15 minutes

POWER

Input Voltage 90 - 135, 180 - 264 VAC (Selectable)
Frequency 47 - 63 Hz
Power 50 - 90 Watts (Maximum)

PHYSICAL

High x Wide x Deep; Weight
Rack Mount/ 5.25 in. x 19 in. x 17.5 in.; 23 / 33 lbs
Drive Module 1.7 in. x 4.6 in. x 8.2 in.; 3 lbs
43.2 mm x 117 mm x 208 mm; 1.4 kg

Specifications subject to change without notice.

COMMON OPTIONS

Opt-25 Multi-Volume Support
Opt-51 Disk-to-Disk Image Copy/Backup
Opt-55 Disk Mirroring and On-line Copy
Opt-29 Fixed / Removable Drive Support
Opt-38*, 39* Multiple Styles of Interface Connector
Opt-05 Mounting Shelf for RETMA Cabinets
Opt-CE CE compliance for EU countries
More Options Available.