

TEXT,C,55  
FLEXARRAY IX

- HOST INDEPENDENT
- DATA PROTECTION
- RUAC CONTROLLER
- SUPERIOR PERFORMANCE

The FlexArray IX offers solutions for today's three most pressing issues in mass storage - protecting important data, capacity, and throughput. The FlexArray IX eliminates the headaches of proprietary solutions since it is plug and play into most SCSI or SCSI-2 systems regardless of the hardware platform or operating system environment.

Based on a true RAID hardware controller, the RUAC (Raidtec Universal Array Controller), the FlexArray IX delivers a very cost effective and open solution for reliable data storage. The FlexArray IX provides five full function SCSI data channels and is easily-configurable into seven different operating modes including RAID level 0 (Striping), Level 1 (Mirroring), Enhanced Level 1 (Mirroring with Striping), and Enhanced Level 3/5 (Striping with Parity). Hot Replacement of failed drives as well as power supplies is a standard feature. It is not necessary to down the network or workstation to maintain or replace power supplies or drives. After replacing a failed drive, one touch of the reconstruct button initiates the background regeneration process which is totally transparent to the host computer and operating system. During regeneration, the FlexArray IX automatically prioritises host system activity over reconstruction activity to maintain optimum performance.

The unique engineering design of the FlexArray IX goes beyond typical RAID implementations by providing a subsystem that is truly hardware platform and system independent. The Array Data Manager (ADM) and the RUAC Parity Generator (RPG) work in parallel to perform all transactions, including writes, in a single I/O cycle thus eliminating the typical read-modify-write overhead normally associated with RAID 3 and 5.

You can not afford to be down; so take a close look at the FlexArray IX. Innovative in architecture and design; flexible in support of standard SCSI host adapters and drives; cost effective data protection and

I/O performance; host independent for today's multi-platform computing environment; the FlexArray IX is the ideal solution for safe data storage.

## FLEXARRAY IX SPECIFICATIONS

### PHYSICAL SPECIFICATIONS

Dimensions:

- Height 401.63 mm 15.750 in
- Width 398.44 mm 15.625 in
- Depth 398.44 mm 15.625 in

Disk Shuttles Accommodates 3.5" drives

Positions Positions for six (6) drives

Weight 40 lbs. (18.1 kg) without drives  
50 lbs. (22.7 kg) with six (6)  
drives

### STORAGE CAPACITY

- with five (5) drives installed from 1.4 gigabytes to 8 gigabytes per FlexArray IX.
- Maximum capacity depends on individual drive capacity.
- Multiple FlexArray IX units can be supported

### DISK ARRAY ASSEMBLY

The Raidtec FlexArray IX base model includes:

- RUAC 6 channel RAID SCSI Controller
- Dual Switch mode power supplies independently removable for Hot Replacement
- Hot Replacement relay board supporting Hot Replacement power supply and failure alarm
- Six (6) Hot Replacement drive bays and shuttle trays
- Power harness connecting six (6) drive bays
- LCD display panel for configuration information and status/activity indication for drives & power supplies
- SCSI harness connecting two (2) external SCSI connectors to the RUAC-1 Controller and backup bay
- Emergency buzzer for power supply and SCSI channel failure alert
- Two meter SCSI shielded cable

### RUAC CONTROLLER

- Raidtec Universal Array Controller
- On-the-Fly hardware parity generation
- Eliminates read, modify, write-back performance overhead
- Programmable RAID Level selection
- Supports seven (7) operating modes

DISK ARRAY INTERFACE  
SCSI, SCSI II

DISK ARRAY OPERATING MODE

- Single Channel, 2 channel, and 4 channel striping and spanning
- 2 Channel mirroring, 4 channel mirroring with striping
- 3 Channel striping with parity, 5 channel striping with parity

DISK ARRAY MTBF

883 Million Hours (95,000 years)

HOST & OPERATING SYSTEM INDEPENDENT

Hardware:	Software:
IBM RS/6000	Microsoft DOS 5.0
Sun SPARC	Microsoft Windows 3.1
HP 9000 Series	SCO UNIX 3.2.4; SCO ODT 2.0
Apple Macintosh	Novell NetWare 3.11
Quadra	Apple Macintosh System 7; AUX 3.0
Intel 80386, 80486	Solaris SPARC 1.1, 2.0
ISA,EISA,MC	HP-UX
Others	AT & T UNIX 5.4

BACKGROUND RECONSTRUCTION TIME

High priority mode 75-125 Megabytes per minute  
Low priority mode 15-25 Megabytes per minute

INTERFACE TRANSFER RATES (MB/Sec)

- Synchronous 5.0 maximum
- Asynchronous 3.0 maximum
- Fast Synchronous 10.0 maximum

ELECTRICAL SPECIFICATIONS

- |                   |     |     |
|-------------------|-----|-----|
| - Voltage (Volts) | 110 | 130 |
| - Current (Amps)  | 6.3 | 3.2 |
| - Frequency (Hz)  | 60  | 50  |

ENVIRONMENT

- Temperature:
  - Operating 41oF to 104oF (5oC to 40oC)
  - Non-Operating 40oF to 140oF (-40oC to 60oC)
- Humidity 10% to 80% (non-condensing)
- EMI & RFI FCC Class A