



# AccuRAID 4U Dual Controller

## Four 8G Fibre channels per controller



The AR424F8R-P are Sans Digital's innovative RAID subsystem utilizing four Fibre channels for host connectivity on each controller in a 4U 24-bay chassis supporting 6Gb/s SAS or SATA III drives. With 6G SAS JBOD AccuStor ( SAS 2.0 Expander ) supporting up to 122 SAS/SATA devices connected (7 units of 3U 16-bay or 5 units of 4U 24-bay), AccuRAID series are scalable to provide over 384TB of storage capacity without sacrificing performance.

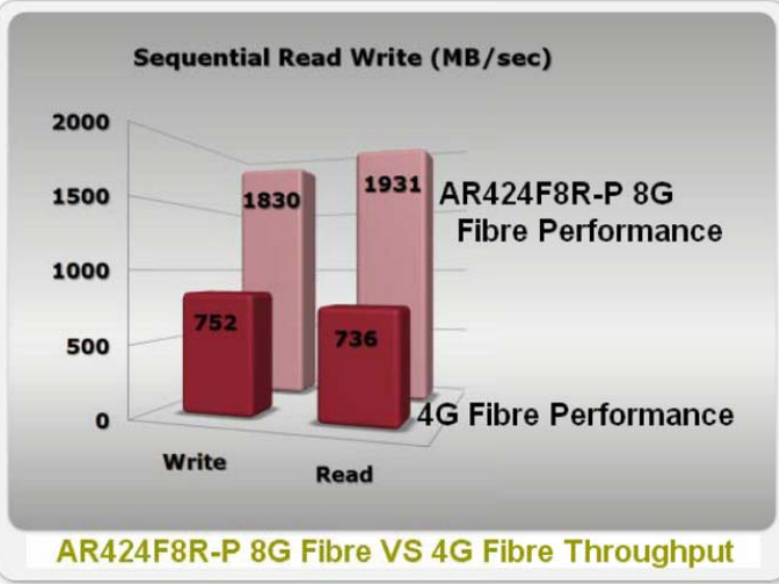


New AccuRAID RAID subsystem Series are Sans Digital's revolutionary product with breakthrough performance over previous AccuRAID RAID products. Driven by new generation storage processor, New AccuRAID Fibre Series are capable of delivering more than 1,900 MB/s data throughput by a single RAID controller that is two to three times better than any other RAID manufacturers can achieve.

### Highlights

- 800Mhz RAID-On-Chip Storage Processor.
- 80+ green Redundant 500W power supplies with PFC, AC Voltage 110-230 VAC /AC Frequency 50-60Hz
- Up to 4GB DDR2 ECC registered on one DIMM socket.
- Hardware RAID 6 engine to support extreme performance RAID 6 function.
- Support Global Hot Spare and local Hot Spare disk.
- Optional Battery Backup module preserves cache contents during power failure.
- NVRAM and Real Time Clock support, for configuration and transaction log.
- 2 x down-stream min-SAS supported, It can connect more SAS JBODs for capacity expansion.

### ● Performance comparison



- New Generation 8Gb Fibre channels
- 6Gb/S, Full duplex data transfer rate
- Support Dual-Redundant controller mode
- Wide port, aggregated bandwidth by 4x Links

## Technical Specifications

### RAID operation

- RAID Levels: 0, 1, 1E, 3, 5, 6, 50, 60 & JBOD ; Multiple RAID selection
- Online RAID level/stripe size migration
- Online Array roaming, online capacity expansion and RAID level migration simultaneously
- Support Global Hot Spare and dedicated Hot Spare disk
- Instant availability and background initialization
- Uniquely features "Drive Spin Down"- Saving more power consumption
- Automatically starts bad Blocks-Scrubbing by "Scheduled Volume Checking"
- Max 122 Physical drivers
- Online Volume set growth
- Max 128 LUNs ( Volume set ) per controller
- Support S.M.A.R.T & NCQ & OOB Staggered Spin-Up capable drives
- Automatic drive insertion / removal detection and rebuilding

### Host Interface

- Four 8Gb Fibre Channels per controller ; Eight 8G Fibre channels for dual controller

### Drive Interface

- 24 of 6Gb SAS/SATA Disks - Support latest 3TB HDD ; 2 x miniSAS ( 4 x 6Gb Links) for expansion

### Environmental / physical

#### Cooling

- Two redundant, hot-swappable cooling modules with self-regulating speeds and wide range airflow design
- Controlled by RAID controller automatically maintaining optimal ambient temperature

#### Size and weight

- Dimensions: 446.5mm(W) x 517mm(D) x 4U ; Weight (w/o HDDs): 82 lbs