

# EPICa

## **EP-3169J/JD-S3S3** *JBOD enclosure solution*



The EPICa EP-3169J/JD-S3S3 is Proware's most versatile SAS/SATA II Disk Expansion system, ideal for midrange and high capacity storage in Windows environments. Based on 3Gb SAS Channel host interfaces, the EP-3169J/JD-S3S3 supports the choice of SAS (Serial Attached SCSI), and SATA II (Serial ATA) drive configurations to deliver a system bandwidth of up to 1,200 MB/sec.

The ability to mix SAS and SATA drives allows the EP-3169J/JD-S3S3 to be used for a range of applications that require different price/performance characteristics. Cost-effective SATA drives can be selected for capacity oriented storage such as disk-to-disk backup and the storage of reference data. Higher specification SAS drives can be employed for I/O intensive applications including transactional databases. Hosting multiple tiers of data in an EP-3169J/JD-S3S3 configuration gives organizations the flexibility to meet both their technical requirements and budgetary constraints with a single unified solution.

### ***Features***

- ◆ Fully redundant with hot swappable disks, cooling fans and power supplies
  
- ◆ Modular Design With Common Parts
  - Inventory control efficiency
  - Cost-saving benefits to the end-user
  
- ◆ Power Supply
  - Power Supply and cooling system contained in 1 module for efficient cooling
  - 600W power supplies to meet the future HDD power consumption
  - Airflow Redirector to eliminate pockets of dead air to prevent overheating of the system
  
- ◆ Enclosure
  - Modules are interchangeable with other Epica products
  - Hardware expansion slots keeps you up-to-date on the latest technologies
  - Incorporates a cableless design for maximum signal integrity
  
- ◆ SES
  - Utilizes industry-standard SCSI Enclosure Services to monitor enclosure and disk environmental conditions

## SERIES TECHNICAL SPECIFICATIONS

<b>Model</b>	EP-3169J / JD-S3S3
<b>Form Factor</b>	3U 19" rackmount chassis
<b>Host Bus Interface</b>	4 Lane SAS (Infiniband) / 4 Lane SAS x 2 Up to 300 MB/s per Channel
<b>Disk Bus Interface</b>	3.0 Gb SAS SAS / SATA II
<b>Backplane</b>	3Gb SAS Single BP
<b># of Hot Swap Trays</b>	16
<b>Tray Lock</b>	Yes, w/ Lock Indicator
<b>Disk Status Indicator</b>	Access / Fail LED w/ 170° view
<b>Capacity</b>	6.4 TB (at 400GB SAS drive) 16 TB (at 1TB SATA drive)*
<b>Enclosure Monitoring (SES)</b>	In Band SES via SAS
<b># of PS/Fan Modules</b>	600W x 2 w/PFC
<b># of Fans per Module</b>	2 (Multi-speed)
<b>Max. Air Flow</b>	210 CFM
<b>Power Status Indicator</b>	Yes
<b>Fan Status Indicator</b>	Yes
<b>Air Flow Redirector</b>	Yes
<b>Power Requirements</b>	AC 90V ~ 254V Full Range 10A / 5A at 110V / 220V, 50Hz / 60Hz
<b>Relative Humidity</b>	10% ~ 85% Non-condensing
<b>Operating Temperature</b>	10°C ~ 40°C (50°F ~ 104°F)
<b>Physical Dimension</b>	590(L) x 482(W) x 131(H) mm
<b>Weight (Without Disk)</b>	24 Kg / 25 Kg

★Optional with SATA dongle board

Specification are subject to change without notice.

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## Serial Attached SCSI Advantages

Four-wire Replacement for Parallel SCSI	
• Software compatible "drop in" replacement	• Low voltage (1600 mV max) differential signaling (8b10b encoding)
"Star" Topology (Point-to-Point)	
• Each device gets full bandwidth	• Minimum arbitration overhead
SAS Attributes Extend Capabilities beyond Parallel SCSI	
• Dual-porting	• Native support for either SATA or SAS drives
• 16K devices (per domain)	• Wide ports and rate matching



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