

EPICa

4U FC-SATA Single/Redundant RAID Subsystem EP-4429S/D-F4A3



The EP-4429S/D-F4A3 RAID subsystem features 4Gb F/C host performance to increase system efficiency and performance. It features high capacity expansion, with 42 hot-swappable SATA II hard disk drive bays in a 19-inch 4U rackmount unit, scaling to a maximum storage capacity in the terabytes range (42TB raw capacity).

EPICa's enclosure is designed for maximum expandability and flexibility. EPICa uses only common modules. For any system to be able to meet the needs of future requirements, expandability is essential. EPICa was designed for future expandability. With EPICa, the power supply and fan units are enclosed within the same module. Combined with a larger module volume and larger fan unit, a more powerful power supply can be used because of better airflow. Airflow Redirector to eliminate pockets of dead air to prevent overheating of the subsystem.

EPICa incorporates a canless design which means less connectors are used. Less connectors result in better signal stability. In addition, EPICa uses hi-quality connectors for maximum signal integrity.

Every system needs an environmental control system to regulate the internal environment of the subsystem. EPICa's SES is the mainstay of environment control. With SES you have a proven standard protocol for environmental control.

Features

- ▶ Supports RAID levels 0, 1, 10, 5, 6.
- ▶ Maximum LUNs: Up to 1024.
- ▶ Online RAID Expansion.
- ▶ Supports Global/Local hot spare and automatic hot rebuild.
- ▶ Supports drive roaming.
- ▶ Instant availability and background initialization.
- ▶ Cache policy management.
- ▶ Variable stripe size.
- ▶ Remote notification through E-mail.
- ▶ Dual controller redundancy: Active/Active.



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Technical Specifications

Model	EP-4429S-F4A3	EP-4429D-F4A3
RAID Controller	4Gb FC-SATA Single	4Gb FC-SATA Redundant
Host Interface	4Gb FCx2 Up to 400MB/s per channel 512 command queue depth	4Gb FCx4 Up to 400MB/s per channel 512 command queue depth
Disk Interface	SATA I / SATA II	SATA I / SATA II
Raw Capacity (Direct Attached)	42TB (42x1TB SATA drive)	42TB (42x1TB SATA drive)
Processor Type	533MHz RISC AMCC 440SPe Embedded R6 XOR engine	533MHz RISC AMCC 440SPe Embedded R6 XOR engine
Cache Memory	512MB ~ 2GB 667 MHz DDR II ECC SDRAM	512MB ~ 2GB 667 MHz DDR II ECC SDRAM
Battery Backup	72 hrs (Optional)	72 hrs (Optional)
Management Port	10/100/1000 Mbit Ethernet	10/100/1000 Mbit Ethernet
Monitor Port	RS232	RS232
RAID Features		
RAID Level	0, 1, 10, 5, 6	0, 1, 10, 5, 6
LUNs	Up to 1024	Up to 1024
Online RAID Expansion	Yes	Yes
Global/Local Hot Spares	Yes	Yes
Drive Roaming	Yes	Yes
Immediate RAID Availability	Yes	Yes
Cache Policy Management	Yes	Yes
Online Rebuild	Yes	Yes
Variable Stripe Size	Yes	Yes
Remote Notification	E-mail	E-mail
Dual Controller Redundancy	-	Active / Active
Enclosure		
Platform	Rackmount	Rackmount
Form Factor	4U	4U
# of Hot Swap Trays	42	42
Tray Lock	Yes, w/Lock indicator	Yes, w/Lock indicator
Disk Status Indicator	Access / Fail, LED w/170° view	Access / Fail, LED w/170° view
Backplane	3Gb SATA II	3Gb SATA II
Enclosure Monitoring (SES)	In Band SES via SAS	In Band SES via SAS
# of PS/Fan Module	600W x 3 w/PFC	600W x 3 w/PFC
# of Fans per Module	2 (Multi-speed)	2 (Multi-speed)
Maximum Air Flow	400 CFM	400 CFM
Air Flow Redirector	Yes	Yes
Power Requirements	AC 90V ~ 254V Full Range 10A/5A at 110V/220V, 50Hz/60Hz	AC 90V ~ 254V Full Range 10A/5A at 110V/220V, 50Hz/60Hz
Environmental		
Relative Humidity	10% ~ 85% Non-condensing	10% ~ 85% Non-condensing
Operating Temperature	10°C ~ 40°C (50°F ~ 104°F)	10°C ~ 40°C (50°F ~ 104°F)
Physical Dimensions	780(L)x482(W)x176(H) mm	780(L)x482(W)x176(H) mm
Weight (Without Disk)	45.1 kg	45.1 kg

Specifications are subject to change without notice.
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