

EPICa

EP-4429S/D-F4A3

4U FC-SATA Single / Redundant RAID subsystem



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 terabyte range.

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 a 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 cableless 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 and 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



Series Technical Specifications

	EP-4429S-F4A3	EP-4429D-F4A3
RAID Controller	4Gb FC-SATA Single	4Gb FC-SATA Redundant
Host Interface	4Gb FC x 2	4Gb FC x 4
	Up to 400MB/s per Channel	Up to 400MB/s per Channel
	512 Command Queue Depth	512 Command Queue Depth
Disk Interface	SATA I / SATA II	SATA I / SATA II
Direct Attached	42 Disks	42 Disks
Expansion	4 lane SAS expansion	4 lane SAS expansion
	Up to 84 Disks	Up to 84 Disks
JBOD	EP-4429J-S3A3	EP-4429JD-S3A3
Processor Type	533MHz RISC AMCC 440SPe	533MHz RISC AMCC 440SPe
	Embedded R6 XOR Engine	Embedded R6 XOR Engine
Cache Memory	512MB ~ 2GB	1GB ~ 4GB
	667 MHz DDR II ECC SDRAM	667 MHz DDR II ECC SDRAM
Battery Backup	72 hrs (Optional)	72 hrs (Optional)
Management Port	10 / 100 / 1000 Ethernet	10/100/1000 Ethernet auto sensing
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 Modules	600W x 3 w/PFC	600W x 3 w/PFC
# of Fans per Module	2 (Multi-speed)	2 (Multi-speed)
Max. Air Flow	400 CFM	400 CFM
Air Flow Redirector	Yes	Yes
Power Requirements	AC 90V ~ 254V Full Range	AC 90V ~ 254V Full Range
	10A / 5A at 110V/220V, 50Hz/60Hz	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 Dimension	752.4(L) x 482.6(W) x 176(H) mm	752.4(L) x 482.6(W) x 176(H) mm
Weight (Without Disk)	45.1 Kg	46.1 Kg



PROWARE TECHNOLOGY CORP.
 Tel:886-2-2914-8001(Rep.) Fax:886-2-2914-7975
<http://www.proware.com.tw> E-mail:info@proware.com.tw

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