

EPICa

EP-4604-G1S3

EP-4604-GAS3

4U 60Bay iSCSI-SAS/SATAII RAID Subsystem

EP-4604J-S6S6

4U 60Bay 6Gb SAS JBOD Enclosure Solution



The EP-4604 series RAID subsystem features high density disks capacity with 1/10 Gigabit ports on each controller to increase system efficiency and performance. It features high capability of expansion, with 60 hot-swappable SAS/SATA hard disk drive bays in a 19-inch 4U rackmount unit, scaling to a maximum storage capacity in the terabyte range.

Unparalleled Performance & Reliability

- Supports 802.3ad port trunking, Link Aggregation Control Protocol (LACP)
- High data bandwidth of system architecture by powerful 64-bit RAID processor

Unsurpassed Data Availability

- RAID 6 capability provides the highest level of data protection
- Supports snapshot-on-the-box w/o relying on host software
- Supports Microsoft Windows Volume Shadow Copy Services (VSS)

Exceptional Manageability

Menu-driven front panel display

- Management GUI via serial console, SSH telnet, Web and secure web(HTTPS)
- Event notification via Email and SNMP trap
- Menu-driven front panel display

Features

- 60 hot-swappable disk drive bays which support SAS/SATA disks
- Supports iSCSI jumbo frame
- Supports Microsoft Multipath I/O (MPIO)
- Supports RAID levels 0, 1, 0+1, 3, 5, 6, 10, 30, 50, 60 and JBOD
- Local N-way mirror: Extension to RAID 1 level, N copies of the disk
- Global and dedicated hot spare disks
- Write-through or write-back cache policy for different application usage
- Supports greater than 2TB per volume set (64-bit LBA support)
- Supports manual or scheduling volume snapshot (up to 32 snapshot)
- Snapshot rollback mechanism
- On-line volume migration with no system down-time
- Online volume expansion
- Instant RAID volume availability and background initialization
- Supports S.M.A.R.T, NCQ and OOB staggered Spin-up capable drives
- High efficiency power supply which compliant with 80plus



Series Technical Specifications

Model	EP-4604-G1S3	EP-4604-GAS3	EP-4604J-S6S6
RAID controller	iSCSI-SAS	iSCSI-SAS	JBOD
Host interface	Four 1Gb/s Ethernet	Two 10Gb/s Ethernet	One 6Gb/s SAS (SFF-8088)
Disk interface	SAS 3Gb or SATA II	SAS 3Gb or SATA II	SAS 6Gb or SATA3
SAS expansion	One 3Gb/s SAS (SFF-8088)	One 3Gb/s SAS (SFF-8088)	One 6Gb/s SAS (SFF-8088)
Processor type	Intel IOP342 64-bit (Chevelon dual core)	Intel IOP342 64-bit (Chevelon dual core)	-
Cache memory	2GB ~ 4GB DDR-II ECC SDRAM	2GB ~ 4GB DDR-II ECC SDRAM	-
Battery backup	Optional hot pluggable BBM	Optional hot pluggable BBM	-
Management port support	Yes	Yes	-
Monitor port support	Yes	Yes	-
UPS connection	Yes	Yes	-
RAID level	0, 1, 0+1, 3, 5, 6, 10, 30, 50, 60 and JBOD	0, 1, 0+1, 3, 5, 6, 10, 30, 50, 60 and JBOD	-
Logical volume	Up to 1024	Up to 1024	-
iSCSI Jumbo frame support	Yes	Yes	-
Supports Microsoft Multipath I/O (MPIO)	Yes	Yes	-
802.3ad port trunking, LACP support	Yes	Yes	-
Host connection	Up to 32	Up to 32	-
Host clustering	Up to 16 for one logical volume	Up to 16 for one logical volume	-
Manual/scheduling volume snapshot	Up to 32	Up to 32	-
Hot spare disks	Global and dedicated	Global and dedicated	-
Host access control	Read-Write & Read-Only	Read-Write & Read-Only	-
Online volume migration	Yes	Yes	-
Online volume sets expansion	Yes	Yes	-
Configurable stripe size	Yes	Yes	-
Auto volume rebuild	Yes	Yes	-
N-way mirror (N copies of the disk)	Yes	Yes	-
Microsoft Windows Volume Shadow Copy Services (VSS)	Yes	Yes	-
Supports CHAP authentication	Yes	Yes	-
S.M.A.R.T. support	Yes	Yes	Yes
Snapshot rollback mechanism support	Yes	Yes	-
Platform	Rackmount	Rackmount	Rackmount
Form factor	4U	4U	4U
# of hot swap trays	60	60	60
Tray lock	Yes	Yes	Yes
Disk status indicator	Access / Fail LED	Access / Fail LED	Access / Fail LED
# of PS modules	700W x 3 w/PFC	700W x 3 w/PFC	700W x 3 w/PFC
# of fans	11	11	11
Power requirements	AC 90V ~ 264V full range, 12A ~ 6A, 47Hz ~ 63Hz (each module)	AC 90V ~ 264V full range, 12A ~ 6A, 47Hz ~ 63Hz (each module)	AC 90V ~ 264V full range, 12A ~ 6A, 47Hz ~ 63Hz (each module)
Relative humidity	10% ~ 85% Non-condensing	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)	10°C ~ 40°C (50°F ~ 104°F)
Physical dimension	850(L) x 482.5(W) x 177(H) mm	850(L) x 482.5(W) x 177(H) mm	850(L) x 482.5(W) x 177(H) mm
Weight (without disk)	43.5Kg	43.5Kg	43.5Kg

Specification is subject to change without notice. All company and product names are trademarks of their respective owners.



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