

EPICa

EP-4604S/D-F8S6

*4U 60Bay 8Gb FC/iSCSI - 6Gb SAS
Redundant RAID Subsystem*

EP-4604J/JD-S6S6

4U 60Bay 6Gb SAS JBOD Enclosure



The EP-4604 series RAID subsystem features high density disks capacity with four(4) 8Gb FC ports and two(2) Gigabit iSCSI ports on each controller to increase system efficiency and performance. It features high capability of expansion, with 60 hot-swappable SAS2/SATA3 hard disk drive bays in a 19-inch 4U rackmount unit, scaling to a maximum storage capacity in the terabyte range. The EP-4604D series also supports Dual-active controllers which provide better fault tolerance and higher reliability of system operation.

Unparalleled Performance & Reliability

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

Unsurpassed Data Availability

- RAID 6 capability provides the highest level of data protection
- Supports Snapshot, Volume cloning, Replication, Thin Provision
- 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 SAS2/SATA3 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 64 snapshot)
- Snapshot rollback mechanism
- On-line volume migration with no system down-time
- Online volume expansion
- Instant RAID volume availability and background initialization
- Automatic synchronization of firmware version in the dual-active mode
- 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-4604S/D-F8S6	EP-4604J/JD-S6S6
RAID controller	FC/iSCSI-SAS	JBOD
Controller	Single or Redundant	Single or Redundant
Host interface	Four(4) 8Gb/s FC, Two(2) 1Gb/s Ethernet (per controller)	One 6Gb/s SAS (SFF-8088) (per controller)
Disk interface	6Gb/s SAS or 6Gb/s SATA*	6Gb SAS or 6Gb/s SATA*
SAS expansion	One 6Gb/s SAS (SFF-8088)	One 6Gb/s SAS (SFF-8088)
Processor Type	INTEL Xeon processor	-
Cache memory	4GB ~ 8GB DDR3 SDRAM (per controller)	-
Battery backup	Optional hot pluggable BBM	-
Management port support	Yes	-
Monitor port support	Yes	-
UPS connection	Yes	-
RAID level	0, 1, 0+1, 3, 5, 6, 10, 30, 50, 60 and JBOD	-
Logical volume	Up to 4096	-
iSCSI Jumbo frame support	Yes	-
Supports Microsoft Multipath I/O (MPIO)	Yes	-
802.3ad port trunking, LACP support	Yes	-
Host connection	Up to 128	-
Host clustering	Up to 16 for one logical volume	-
Manual/scheduling volume snapshot	Up to 64	-
Hot spare disks	Global and dedicated	-
Host access control	Read-Write & Read-Only	-
Online volume migration	Yes	-
Online volume sets expansion	Yes	-
Configurable stripe size	Yes	-
Auto volume rebuild	Yes	-
N-way mirror (N copies of the disk)	Yes	-
Microsoft Windows Volume Shadow Copy Services (VSS)	Yes	-
Supports CHAP authentication	Yes	-
Thin Provision	Yes	Yes
Local Clone	Yes	Yes
Remote Replication	Yes	Yes
VAAI (vStorage APIs for Array Integration)	Yes	Yes
S.M.A.R.T. support	Yes	Yes
Snapshot rollback mechanism support	Yes	-
Platform	Rackmount	Rackmount
Form factor	4U	4U
# of hot swap trays	60	60
Tray lock	Yes	Yes
Disk status indicator	Access / Fail LED	Access / Fail LED
Backplane	6Gb SAS / SATA Single BP	6Gb SAS / SATA Single BP
# of PS modules	700W x 3 w/PFC	700W x 3 w/PFC
# of fans	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)
Default Slide Rail: Post to Post 800mm~1090mm (32"~42") / Option: Post to Post 750mm~900mm (29"~35")		
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	860(L) x 482.5(W) x 177(H) mm	860(L) x 482.5(W) x 177(H) mm
Weight (without disk)	43.5/45Kg	43.5/45Kg

* Redundant controller request optional dongle board for SATA hard drive.

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



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