GE to 10GE, Dual Core/Dual 64-bit Opteron
Apace High Performance Network Storage

400 MBytes/sec eStor™ NAS series from ..... iEEi.TV

Apace Systems enterprise class eStor series of Network Attached Storage (NAS) file based storage systems are tailored for very fast data & media archive and retrieval. eStor systems include the functionality of server, NAS and RAID in a single chassis with great economics. With ever increasing demand for data and media centric applications, eStor fast storage access is ideal fit for a variety of vertical applications in need of highest performance, lowest cost disk based network storage. To address a wide range of customer storage needs eStor is offered in three class categories:

eStor	Performance Throughput*	IOPs*	Capacity	Target Markets
e1500 (2U) Dual CPU Opteron	150-200 Mbytes/s	40K	2 – 6.4TB	Data and video sharing and archive file and e-mail backup, broadcast, web based applications storage
e1500 (3U,4U) Dual CPU Opteron	200-300 Mbytes/s	60K	9.6 – 18TB	Large data and media backup, capture/Archive (Disk-2-Disk) Ideal for corporate data, SD/HD media, graphics, and medical imaging, digital library storage
e2000/e2500 (4U) Dual-Core/Dual Opteron	250-400 Mbytes/s	75K	9.6 – 18TB	Data centers, computer clusters, render farms, animations, special effects storage

* *IOPs per Ramdisk access & performance based on read*

To further increase the performance value of the products offered the customers can turbo charge the eStor system with turbo upgrade kits to reach <u>400 Mbytes/sec</u> throughput, offering further absolute performance for offered SKus.

eStor line is offered based on latest distribution of open standard Linux with an end-to-end 64 bit storage computing platform. Also, all eStor systems leverage state of the art dual AMD 64-bit Opteron CPUs, latest network connectivity, RAID 5 or 6 (for dual disk failure) and drive technologies. eStor can be easily packaged with various application software options to support backup and anti-virus. Loaded with up to 16GB of solid state cache it can be tailored for I/O intensive and heavy disk write operations. eStor is shipped with network, storage and user management software. It provides utilities like system status warning and disk failure prediction. It is designed for ease of use and can be flexibly adapted to different environment.

Given the flexibility, scalability and high availability of eStor platform, it can target for a wide variety of applications in the small and large data centers and networked work groups. Shared for storage by heterogeneous client workstations and server clusters based on PC, MAC, Unix and Linux systems, eStor supports all clients over Multi- Gigabit Ethernet networks. Systems address the high availability needs of the enterprise applications via robust redundancy at all aspect of the design with hot swappable Hard disk drives and replicable power supplies and fans. eStor disk based networked storage offers RAID reliability, scalability, simplicity and speed over familiar Ethernet networks. eStor line can be a primary file based storage system as well as be used for archival and disk based backup. eStor attractive price points do offer Disk = Tape price parity while providing storage capacity of up to 18TB in a single chassis, which makes eStor an alternative to or great addition to tape libraries at much faster access speed.

eStor Models

P/N	Raw Capacity	H/W Description
e1500-2U 2T/3T/4T	2TB/ 3.2TB/ 4TB	2u 19" chassis, 8 hot-swap s-ATAII data HDDs, dual Opteron CPUs, 2GB ECC/Reg RAM, dual GigE ports, RAID 0, 1 & 5, and 460W p/s (optional redundant p/s)
e1500-3U 4T/6T/8T	4TB/ 6.4TB/ 8TB	3u 19" rack-mount, 16 hot-swap s-ATAII HDDs, dual Opteron CPUs, 2GB ECC/Reg RAM, dual GigE ports, RAID 0, 1, 5 & **6** and 2+1 redundant power supply
e1500-4U 10T/12T/**18T**	9.6TB/ 12TB	4u 19" rack-mount, 24 hot-swap s-ATAII HDDs, dual Opteron CPUs, 2GB ECC/Reg RAM, dual GigE ports, RAID 0, 1, 5 & **6** and 3+1 redundant power supply
e2000-4U 10T/12T/**18T**	9.6TB/ 12TB	4u 19" rack-mount, 24 hot-swap s-ATAII HDDs, *dual-core* dual Opteron CPUs, 2GB ECC/Reg RAM, dual GigE ports, RAID 0, 1, 5, & **6**, and 3+1 redundant power supply
e2500-4U10T/12T/18T	**9.6TB/ 12TB**	**4U 19" rack-mount, 24 hot-swap s-ATAII HDDs, *dual-core* dual 64-bit Opteron CPUs, 2GB ecc/reg RAM, 1x *10GbE* (CX4) and 2x GigE ports, RAID 0/1, 5 & 6, 3+1 redundant power supply**

Performance Upgrade Turbo Kits

Op-Turbo1	Kit 1	Upgraded Dual CPUs, 8GB of Aggregate Cache Memory, Additional Quad GE for higher throughput and IOPS
Op-Turbo3	Kit 3	Upgraded Dual dual-core CPUs, 8GB of Aggregate Cache Memory, Additional Quad GE for higher throughput and IOPS

Main Features

- *10Gb Ethernet* CX4 copper interface
- 64-bit NAS tuned for speed
- Dual-core, dual AMD 64-bit Opteron CPUs
- 64-bit Linux based system software
- XFS support
- 2U 8-bay, 3U 16-bay, and 4U 24-bay packages with 2-12TB in a 19" chassis
- Hot-swap serial ATA hard disk drives
- GUI for system and disk management
- User access and storage space management, re-sizing and password protection
- Optional 6+ Gigabit Ethernet ports
- Up to 16 GB of solid state cache memory
- System status warning (email/ messaging)
- Hard disk failure prediction
- RAID 0, 1, 5, 6 & 10 configurable
- *RAID 6* option for better data protection
- Optional backup & virus control software
- Fault-tolerant implementation (ECC/Reg DDR, hot plug fans, and redundant hot-plug power supplies.)
- External storage expandability through Fibre Channel, SCSI, iSCSI and/or Ethernet
- Interoperable with MS Windows XP/NT, Apple Mac OS, Unix/ Linux clients

Key Benefits **iEEi TV**

- **Content access and sharing**
- **High performance NAS for video (150-400 MBps) with RAID 6**
- **Scalable through Gigabit Ethernet**
- **Expandable for external FC/SCSI RAID**
- **Easy to manage and use via GUI**
- **Interoperable with all major OS's**
- **Centralized data management**
- **Great flexibility to fit for all infrastructure setup**
- **Most cost-effective network storage and Setup**

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System will find Dennis Bress