



## System Specifications

- **Capacity**  
1GB~16GB
- **Interface**  
PCI 2.2 Full  
64bit/66MHz (Support 32bit/33MHz)
- **I/Os Per Second**  
62,000 IOPS (Test Server: HP DL585)
- **Access Time**  
0.009ms
- **Data Transfer Rate**  
528MB/sec Burst Transfer Rate  
400MB/sec Sustained Transfer Rate
- **Power**  
Max < 18W  
Idle 6W  
Board +2.5 VDC  
+3.3 VDC  
+ 5 VDC  
+ 12 VDC
- **OS**  
Windows XP  
Windows 2000  
Windows 2003  
Windows NT  
Linux Kernel 2.4.x  
Linux Kernel 2.6.x  
Unix (Under Develop)
- **Battery Pack**  
Input 12V / 2A  
Output 7.2V / 3.6A  
Time 8Hours (Max 12Hours)  
Adapter Input AC 88~240V  
Output DC 12V/2A
- **Back-Up S/W**  
TruImage 9.1
- **Physical(mm)** 325 x 125 x 23  
Weight 271g  
Temperature 5~75°C  
Humidity 5~90%  
Vibration 5G rms
- **Certification**  
FCC, CE, TUV, VCCI, MIC

## Highlight

528MB/sec (Transfer Rate)  
62,000 IOPS  
Up to 16GB PCI Disk  
DDR SDRAM  
0.009ms Access Time

## Performance

JET-SPEED™ which is PCI-X interface Solid State Disk (SSD) uses DDR SDRAM for the first time in Korea. It performs 62,000 IOPS which is the fastest SSD in the world. JET-SPEED™ provides the best performance in 2KB~4KB data size which is most common. Under the condition, it stays at 30,000IOPS and data transfer rate is 80MB~120MB/sec. Access time is faster than 0.009ms.

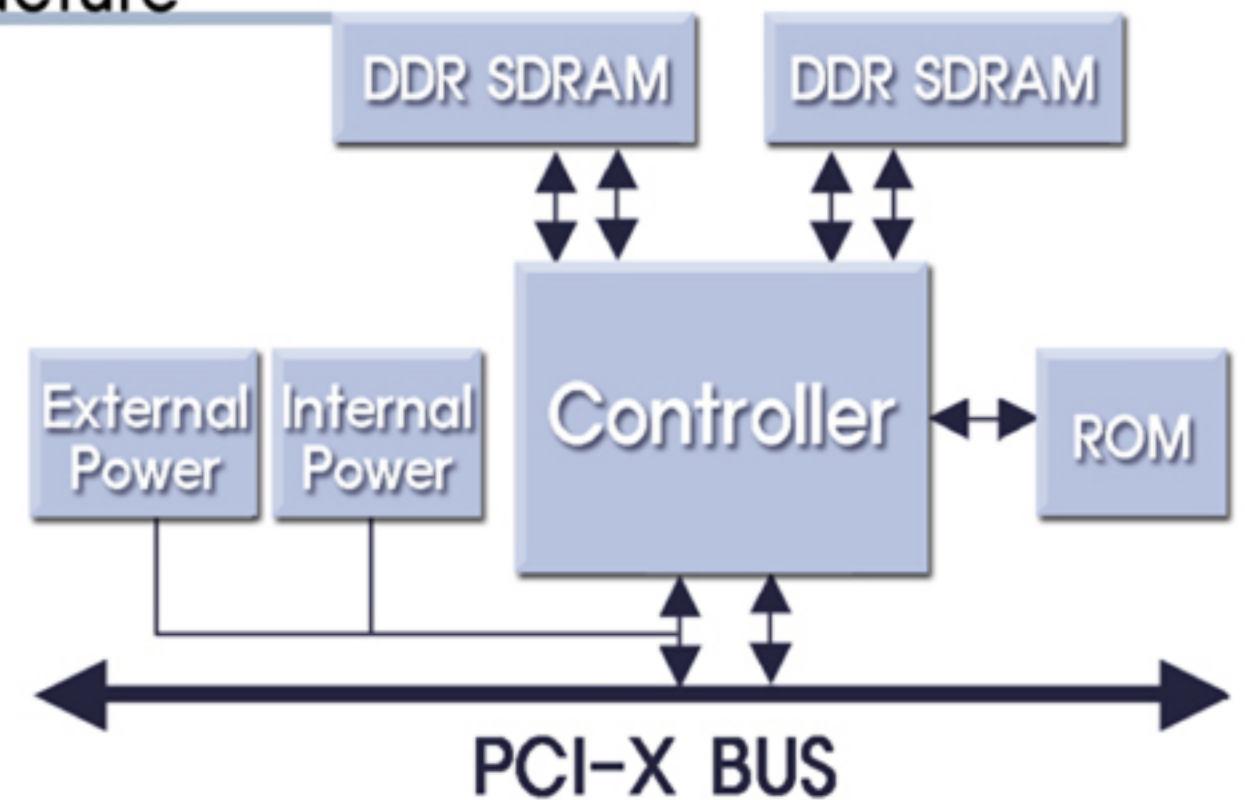
In the case of very large data size transaction, bandwidth is 528MB/sec. JET-SPEED™ successfully passed several certificates such as FCC, CE, TUV, VCCI, and MIC.

## Stability

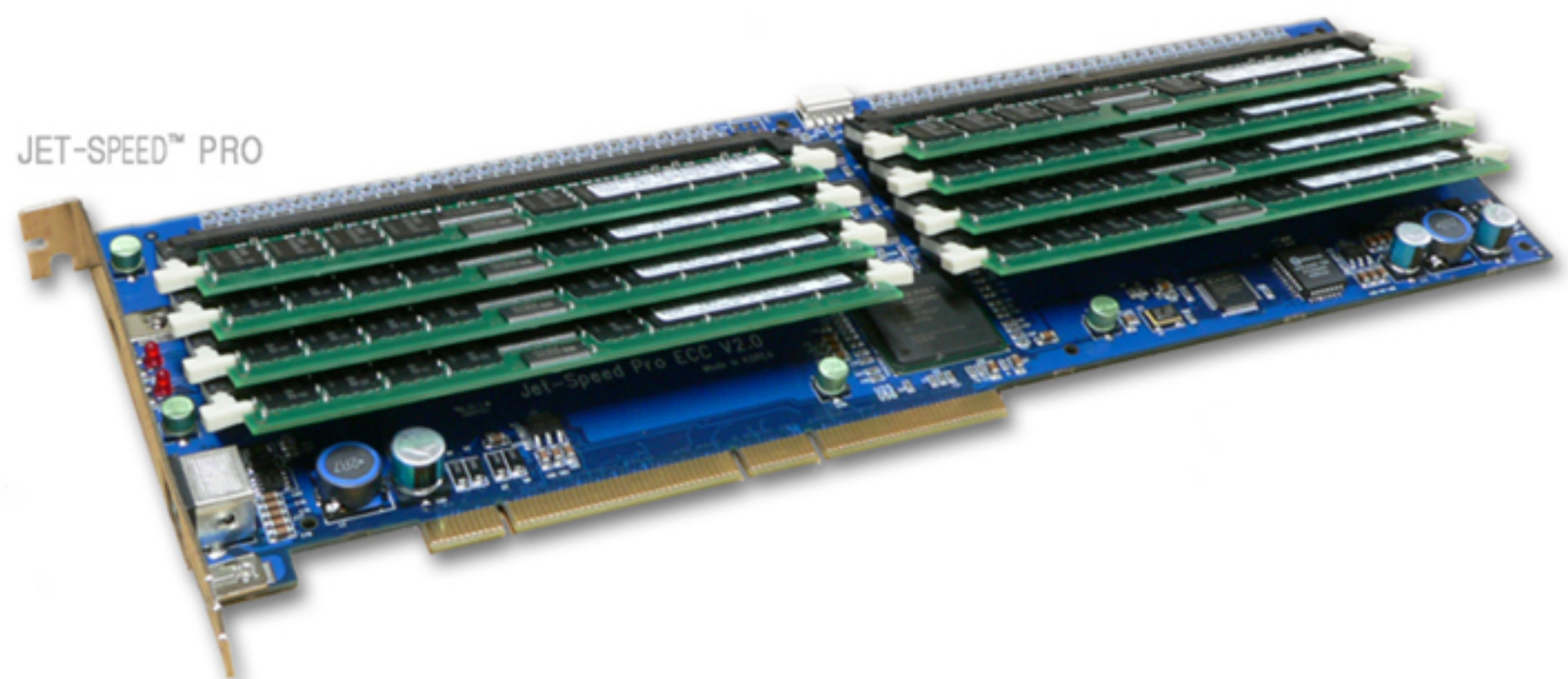
JET-SPEED™ uses DDR registered ECC memory. It guarantees 99.99999999% of data stability. And lithium-ion battery provides 12hours of running time.

Also, it uses general backup S/W. It provide whole backup and sequential backup by user setting. This feature guarantees stability of data.

## Transaction Duplex Structure



JET-SPEED™ PRO





## System Specifications

- **Processor**  
Intel Xeon Quad Core Support
- **Chipset**  
Intel 5000P
- **Memory**  
Registered ECC DDR2 533/667MHz  
-FBDIMM  
Up to 32GB
- **SSD Capacity**  
16~128GB (RAID 0, 1, 5, 1+0, 0+1)
- **External Drive Bays**  
2 x Disk (S-ATA II)  
8 x SSD (JSM; JET-SPEED Module)
- **Internal Disk**  
1 x S-ATA II HDD
- **Network Interface**  
Gigabit Dual Port
- **I/Os Per Second**  
420,000 IOPS
- **Bandwidth**  
4GB/sec x 2Channel
- **Expansion Slot**  
PCI-X 64bit/133MHz(2)  
PCI 32bit/33MHz(1)  
PCI Express x 4 (1)
- **Power Supply**  
600W (2N+1)  
Redundant Hot-Swap
- **Internal Battery**  
Total 600W Support  
Supply power to memory-  
module during 16hours
- **Internal Redundancies**  
Power Supplies (2N+1)  
Fan (3)
- **Management**  
RAID 0, 1, 5 Support  
BackUp & Recovery Solution  
Management Solution  
GUI Monitoring S/W
- **Physical** (WxDxH mm)  
449 x 668 x 178 (4U)

## ● Highlight

4GB/sec (Transfer Rate) x 2Channel
352,000 IOPS
Up to 384GB SSD Capacity (Server:128GB, DAS:256GB)
RAID 0, 1, 5, 1+0, 0+1 Support
8 JSMs (JET-SPEED Module)

Hybrid Server which is a next generation server is proximally 2 to 10 times faster than current server. The various capacity of SSD is perfectly suitable for web server, WAS server, firewall server, certification server, web DB server, and so on. It will be the best solution for server requires high performance. JET-SPEED™ SVR is high performance hybrid server with 100,000 IOPS. It has strong point for many concurrent user, multi transaction, multi processing.

JET-SPEED™ SVR has different process from current server. Since JET-SPEED™ has different process from current servers, the performance of system can be maximized by user setting or potion(WEB/WAS/DBMS).

Performance of JET-SPEED™ SVR is ,much higher than current server as considering its price. JET-SPEED™ SVR will show whole new level to server market.

## ● Integrated Management S/W

### 1. GUI (Graphic User Interface)

With GUI, able to manage the system easily by mouse and easily recognize the status of system.

### 2. Event Notification

Real time condition checking system will check up the internal temperature every minute and control fan RPM. It will manage power consumption and reduce noise.

### 3. System Information

It is available to see system information such as processor, memory, BIOS, version.

### 4. Performance Monitoring

Real time graph will show system resource and performance.

### 5. Report

System information, health log, event log will be reported in CSV file(Excel). With this file, administrator will easily analyze the system and make a statistical data.

### 6. O/S Support

Windows Family  
Linux Family



JET-SPEED™ Hybrid Server S4218T



## ● Highlight

4GB/sec (Transfer Rate) x 2 Channel
420,000 IOPS
Up to 128GB SSD Capacity
RAID 0, 1, 5, 1+0, 0+1 Support
10Gigabit 4 Ports

## System Specifications

- **Capacity**  
16~128GB
- **JSM (Jet-Speed Module)**  
8 Modules
- **Interface**  
10 Gigabit Ethernet  
Up to 4 ports available
- **I/Os Per Second**  
420,000 IOPS
- **Bandwidth**  
4GB/sec x 2Channel
- **LUN Support**  
1 to 128 LUNs  
Hardware LUN Masking
- **Back-Up Disk Drive**  
Hot-Swap S-ATA II x2 (RAID 0, 1)
- **Power Supply**  
600W (2N+1)  
Redundant Hot-Swap
- **Internal Battery**  
Total 600W support  
Supply power to memory-module during 16hours
- **Internal Redundancies**  
Power Supplies (2N+1)  
Fan (3)
- **Management**  
RAID 0, 1, 5, 1+0, 0+1 Support  
Backup & Recovery S/W Support
- **Back-Up**  
Data backup by space during periodic time.  
Data backup without impacting System performance  
Management Solution Support
- **Physical (WxDxH mm)**  
449 x 668 x 178 (4U)

JET-SPEED™ Expert Storage is the first and the largest Solid State Disk (SSD) in Korea. It guarantees the best performance in the world. It provides 8GB bandwidth and 100,000 IOPS. Transaction through this interface will increase performance of DB server over 200%. While using JET-SPEED™ Expert Storage, for dramatic performance improvement, current system S/W have to be tuned.

The huge amount of accessing server is the main reason of the system problems. Under the stressful condition, JET-SPEED™ Expert Storage improves performance of the entire system. The current solution for the server problems needs large amount of additional cost. However with JET-SPEED™ Expert, system performance will improve dramatically only with disk expansion without additional cost for license.

Basic capacity of JET-SPEED™ Expert Storage is 128GB. It is PCI Interface based disk which supports RAID. It supports the bandwidth of 100,000 IOPS and 8GB/sec, it supports RAID for performance improvement such as data stability, reliability, scalability. With storage management S/W, various information can be collected and analyzed. Especially, for data reliability backup supports data cloning. Support of Lithium-ion battery over 16hours make transaction more stable.

If JET-SPEED™ Expert Storage is being used as transaction storage for DB server and massive storage, system performance will be stably improved. Especially at the environment with a lot of concurrent users.



JET-SPEED™ Expert NAS Storage N100



## ● Highlight

4GB/sec (Transfer Rate) x 2 Channel
420,000 IOPS
Up to 128GB SSD Capacity
RAID 0, 1, 5, 1+0, 0+1 Support
PCI Express x8 2Channel

## System Specifications

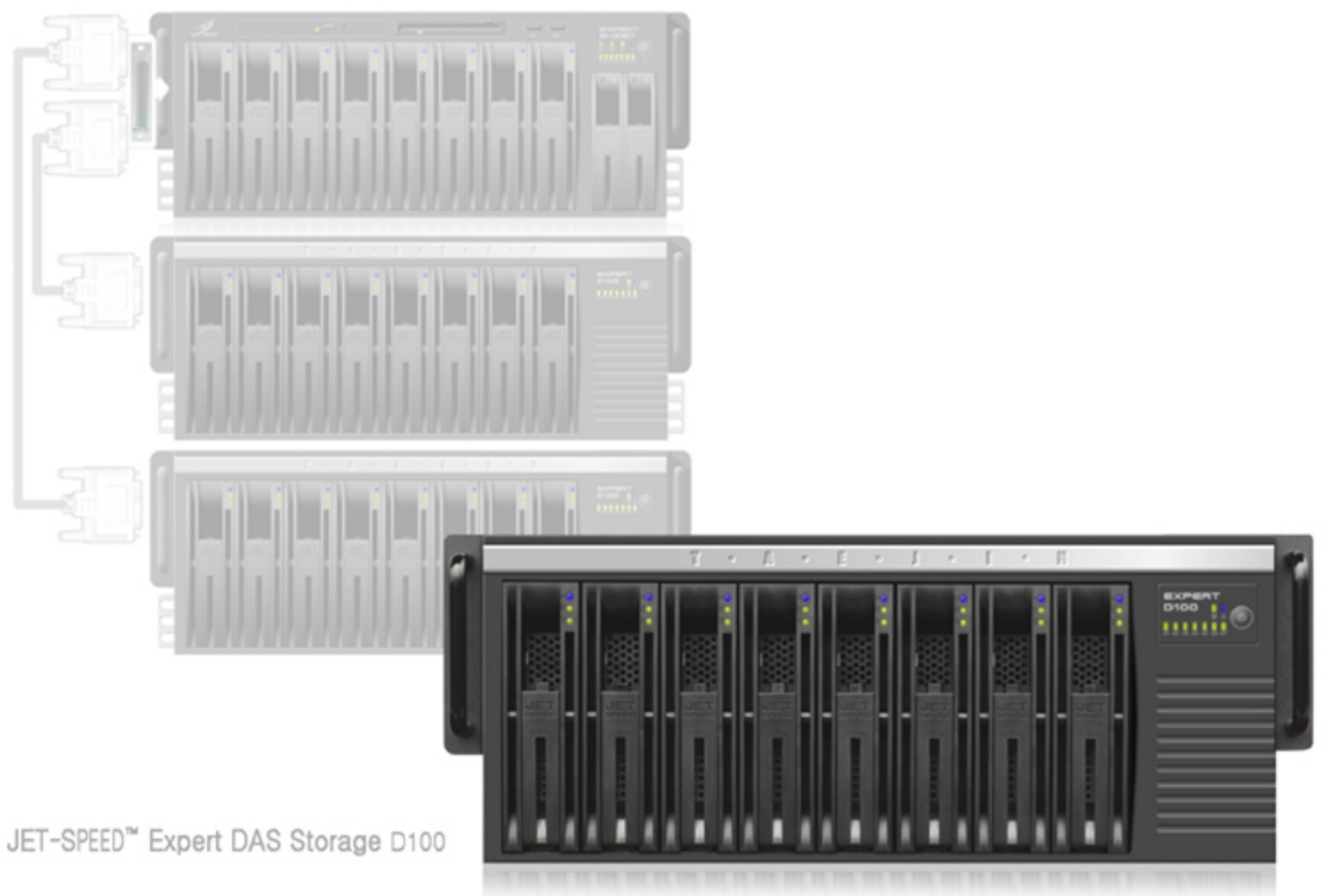
- **Capacity**  
16~128GB
- **JSM (Jet-Speed Module)**  
8 Modules
- **Interface**  
PCI Express x8 2Channel
- **I/Os Per Second**  
420,000 IOPS
- **Bandwidth**  
4GB/sec x 2Channel
- **Power Supply**  
600W (2N+1)  
Redundant Hot-Swap
- **Internal Battery**  
Total 600W support  
Supply power to memory –  
module during 16hours
- **Internal Redundancies**  
Power Supplies (2N+1)  
Fan (3)
- **Management**  
RAID 0, 1, 5, 1+0, 0+1 Support  
Backup & Recovery S/W Support
- **Back-Up**  
Data backup by space during  
periodic time.  
Data backup without impacting  
System performance  
Management Solution Support
- **Physical (WxDxH mm)**  
449 x 668 x 178 (4U)

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Basic capacity of JET-SPEED™ Expert Storage is 128GB. It is PCI Interface based disk which supports RAID. It supports the bandwidth of 100,000 IOPS and 8GB/sec, it supports RAID for performance improvement such as data stability, reliability, scalability. With storage management S/W, various information can be collected and analyzed. Especially, for data reliability backup supports data cloning. Support of Lithium-ion battery over 16hours make transaction more stable.

If JET-SPEED™ Expert Storage is being used as transaction storage for DB server and massive storage, system performance will be stably improved. Especially at the environment with a lot of concurrent users.



JET-SPEED™ Expert DAS Storage D100



## ● Highlight

4GB/sec (Transfer Rate) x 2 Channel
420,000 IOPS
Up to 128GB SSD Capacity
RAID 0, 1, 5, 1+0, 0+1 Support
2 / 4Gb FC 4 Ports Support

## System Specifications

- **Capacity**  
16~128GB
- **JSM (Jet-Speed Module)**  
8 Modules
- **Interface**  
2 / 4Gb Fibre Channel  
Up to 4 ports available
- **I/Os Per Second**  
420,000 IOPS
- **Bandwidth**  
4GB/sec x 2Channel
- **LUN Support**  
1 to 128 LUNs  
Hardware LUN Masking
- **Back-Up Disk Drive**  
Hot-Swap S-ATA II x2 (RAID 0, 1)
- **Power Supply**  
600W (2N+1)  
Redundant Hot-Swap
- **Internal Battery**  
Total 600W support  
Supply power to memory-module during 16hours
- **Internal Redundancies**  
Power Supplies (2N+1)  
Fan (3)
- **Management**  
RAID 0, 1, 5, 1+0, 0+1 Support  
Backup & Recovery S/W Support
- **Back-Up**  
Data backup by space during periodic time.  
Data backup without impacting System performance  
Management Solution Support
- **Physical (WxDxH mm)**  
449 x 668 x 178 (4U)

JET-SPEED™ Expert Storage is the first and the largest Solid State Disk (SSD) in Korea. It guarantees the best performance in the world. It provides 8GB bandwidth and 100,000 IOPS. With SAN environment it supports 2,4-Gb FC 4Port. Transaction through this interface will increase performance of DB server over 200%. While using JET-SPEED™ Expert Storage, for dramatic performance improvement, current system S/W have to be tuned.

The huge amount of accessing server is the main reason of the system problems. Under the stressful condition, JET-SPEED™ Expert Storage improves performance of the entire system. The current solution for the server problems needs large amount of additional cost. However with JET-SPEED™ Expert, system performance will improve dramatically only with disk expansion without additional cost for license.

Basic capacity of JET-SPEED™ Expert Storage is 128GB. It is PCI Interface based disk which supports RAID. It supports the bandwidth of 100,000 IOPS and 8GB/sec, it supports RAID for performance improvement such as data stability, reliability, scalability. With storage management S/W, various information can be collected and analyzed. Especially, for data reliability backup supports data cloning. Support of Lithium-ion battery over 16hours make transaction more stable.

If JET-SPEED™ Expert Storage is being used as transaction storage for DB server and massive storage, system performance will be stably improved. Especially at the environment with a lot of concurrent users.



JET-SPEED™ Expert SAN Storage S100



## System Specifications

- **Processor**  
AMD Opteron Dual-Core 2.2GHz  
Up to 4 CPUs
- **Memory**  
DDR II 400Mhz SDARM  
Up to 64GB
- **RAID Controller**  
Smart Array 5i Plus  
RAID 0, 1, 0+1, 5
- **SSD Capacity**  
32G ~ 128GB  
8 x JET-SPEED
- **Drive Bays**  
SCSI U320 Hot-Swap (4)
- **Network Interface**  
Embedded NC7728 Dual Port  
2 / 4 Gb Fibre Channel  
Up to 4 ports available
- **I/Os Per Second**  
115,000 IOPS
- **Bandwidth**  
1GB/sec
- **Expansion Slot**  
PCI-X 64bit/100MHZ 6  
PCI-X 64bit/133MHZ 2
- **Peripheral Drives**  
CD-ROM Drive (DVD)
- **Power Supply**  
Dual 870 Watt  
Redundant Hot-Swap
- **Internal Battery**  
12V/2A  
Supply power to memory-module during 16hours
- **Internal Redundancies**  
Power supplies  
Fan Hot-Swap  
HDD Hot-Swap  
Backup Battery
- **Management**  
HP Pack S/W  
Backup & Recovery S/W Support
- **Physical** (WxHxD mm)  
483 x 176 x 678

## ● Highlight Hybrid Server to TAEJIN

1 GB/sec (Transfer Rate)
115,000 IOPS
Up to 128GB Storage
RAID 0, 1, 0+1, 5
Hot-Swap
2 / 4Gb FC 4 Ports Support

The world's best selling server HP ProLiant DL585 is high performance 4way server and has the highest tpmC on the bench mark test.

Taejin Infortech and HP agreed to cooperate on developing next generation Hybrid Server. Combining Taejin's memory disk, JET-SPEED™, and HP's high performance server DL585 introduce Hybrid Server.

The performance is 5 to 10 times faster than current servers and it performs high performance on DBMS transaction.

According to the test data from IOMeter, it guarantees 100,000 IOPS under 4KB data size. It uses max bandwidth which is internal bandwidth of HP DL585. It performs 865MB/sec on over 8KB data transaction.

By using 128GB memory disk, it expects high performance on middle size DB server and high transaction server.

World's best server and fastest memory disk creates next generation Hybrid Server. The users will get high performance Hybrid Server with low price.

JET-SPEED™ has certifications from U.S, Europe, Japan, Korea, and Germany. It will provide stable and fast server to the users.



HP ProLiant - DL585



## System Specifications

- **Processor**  
Intel Xeon MP(EM64T), 3.66GHz  
Up to 4 CPUs
- **Memory**  
DDR II 400Mhz SDARM  
Up to 64GB
- **Disk Controller**  
Serve RAID 8i  
RAID 0, 1, 0+1, 5
- **SSD Capacity**  
32G ~ 96GB
- **Drive Bays**  
2.5" SAS Hot-Swap (6)  
Jet-Speed 6 PCI-x (64bit/266MHz)
- **Network Interface**  
Embedded NC7704 Dual Port  
2 / 4Gb Fibre Channel  
Up to 4 ports available
- **I/Os Per Second**  
80,000 IOPS
- **Bandwidth**  
2,000MB/sec
- **Expansion Slot**  
PCI-X 64bit/266MHz 6
- **Peripheral Drives**  
CD-ROM Drive (DVD)
- **Power Supply**  
1300 Watt  
Redundant Hot-Swap
- **Internal Battery**  
12V / 2A  
Supply power to memory-  
module during 16hours
- **Internal Redundancies**  
Power Supplies  
Fan Hot-Swap  
HDD Hot-Swap  
Memory Hot-Swap  
Backup Battery Hot-Swap
- **Management**  
IBM Pack S/W  
Backup & Recovery S/W Support
- **Physical** (WxHxD mm)  
444 x 129 x 715 (3U)

## ● Highlight Hybrid Server to TAEJIN

2GB/sec (Transfer Rate)  
80,000 IOPS  
Up to 100GB Storage  
RAID 0, 1, 0+1, 5  
2.5" SAS Hot-Swap (6)  
2 / 4Gb FC 4 Ports Support

The eServer x366 4way uses main frame Enterprise X-Architecture technology. The technology can be applied on the extendable high performance module type server. It supports expendability, system management, and fusibility.

Taejin Infortech and IBM agreed to cooperate on developing next generation Hybrid Server. Combining Taejin's memory disk, JET-SPEED™, and IBM's high performance server x366 introduces Hybrid Server.

By using Active PCI-x technology, the server increases Input/output bandwidth up to 1.5GB/sec. It is the highest bandwidth in the world.

When data size is bigger than 32KB, it performs best performance. It is the best solution for transmitting high density data and 3D/2D data.

According to the test data from IOmeter, it represents 11,000 IOPS and 1.4GB/sec bandwidth on 128KB data transaction.



IBM eServer - x366