KISS Teknical Solutions

The SB-1 high speed network storage box is capable of sustaining a combined write bandwidth of over 48Gb/s thru the 16 external 10Gb Ethernet interfaces to 32 SATA-2 solid state drives.

Processors

The SB-1 contains 16 CPU boards based upon PA Semi's award winning PA6T 1682M PWRficient™ System On a Chip. Each PA6T 1682M is a based upon Dual Core PowerPC architecture with clock speeds upto 2.0GHz. Each CPU board has two SODIMM connectors for DDR2 memory.

Network Interfaces

Each CPU board has both an external 10/100/1000 Ethernet port (RJ-45) and an external 10Gb Ethernet port (X2 module). The external 10Gb Ethernet port is capable of accepting CX-4, SR, or LR modules.

Internally, each CPU board has an additional three RJ-45 10/100/1000 Ethernet ports.

Mass Storage

The base SB-1 system comes with 32 solid state SATA-2 drives with a combined capacity of 1.25TB, 2.5TB, or 5TB.

Optionally, the SB-1 may be configured at ordering time to use 16 magnetic disk drives for up to 16TB of storage. (Using magnetic disks will degrade the performance of the system.)

I/O

- 1 RS-232 serial console port
- 2 USB v2.0 ports
- Slim line DVD writer

Expansion

A single PCI Express x4 slot is available for use with commodity expansion cards to provide additional functionality such as graphics or additional networking ports.

Software

- Common Firmware Environment (CFE) v2.0 boot flash code
- Linux based distribution (FC-8) using a v2.6 kernel

Power

- 1000 watts
- 90-254V AC

Physical

- 3U form factor
- 19" x 5.20" x 28"

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