

High Bandwidth Data Recorders

When you can't afford to miss important information – SIP's High Bandwidth Data Recorders are designed to provide the most optimal price/performance systems for data capture, storage and processing.

Combined with SIP's service and customer support, this provides the ideal platform for real-time capture of large quantities of data.

Features

Fast data capture for high-speed recording

- Internal Fusion-io ioDrive, up to 10TB
- Read/write speed greater than 1GB/s
- 10Gb/s Ethernet, Infiniband, high-speed ADC and FPGA inputs optional

Large RAID data storage

- Up to 8 removable drives (32TB maximum)
- Rotating or Solid State drives

Extreme processing power

- Dual 6 or 8-core Xeon™ CPUs
- Up to 288GB main memory

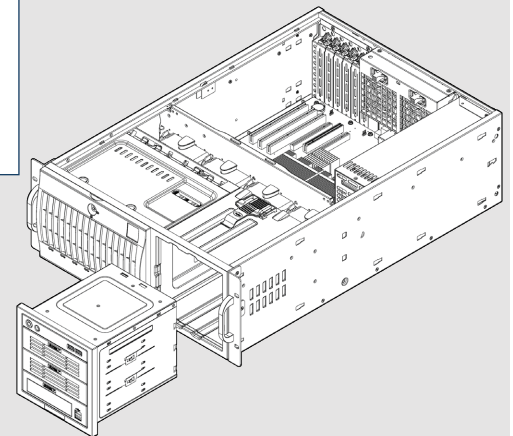
System Overview

SIP's High Bandwidth Data Recorders provide the ability to incorporate program-specific high-volume data streams into high-performance data collection, storage and processing systems.

In a single 4U rackmount chassis, you can include your custom FPGA-based high-speed data input, and you can store up to 10 Terabytes of real-time information into a Fusion-io ioDrive at data rates of over 1GB per second. The data samples can be time-stamped using input from the system's IRIG card. The captured data can then be moved to a local RAID system with up to eight 4 Terabyte removable hard drives, for a total drive capacity of 32TB.

The system's motherboard has dual six-core 3.46GHz Xeon processors and up to 288GB of main memory for maximum data collection and processing power.

Coupled with SIP's unsurpassed customer support, SIP provides a two-year basic system warranty. The Fusion-io board, RAID controller and Fiber Channel HBA are warranted for three years. The motherboard, processors and hard drives are warranted for five years.



Hardware Specifications

- **Rackmount computer system:** SIP-SM400 chassis (4U x 26in, black, 2x front USB 2.0, removable drive bays, locking front door with removable air filters, temperature/fan monitor, slide rails, 920W or greater redundant power supply)
- **Supermicro Dual Xeon motherboard:** Dual 3.46GHz (or faster) processors, up to 288GB main memory
- **Dual 10/100/1000 Mb/s Ethernet** ports (10Gb/s Ethernet optional)
- **Six USB 2.0** ports, on-board **video**
- **RAID controller** for data drives: Up to eight SAS/SATA 6Gb/s drives
- **Solid State** system drive: 100GB or larger
- Symmetricom **IRIG timing card** with D-to-BNC adapter
- Quad-channel **8Gb/s Fiber Channel** Host Bus Adapter
- Fusion-io **ioDrive Duo** or **ioDrive Octal**
- **Linux** or **Windows 64-bit** Operating System
- High-speed **FPGA-based** data input (customer-supplied)
- Other **high-speed data acquisition & GPGPUs** can be installed



www.VME.com

8221 E. Evans Rd. Scottsdale, AZ 85260-3610

Phone: 480-513-8979 • Fax: 480-513-3993 • Sales@VME.com

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