

## Features

- Two 2Gbps Fibre Host Channels; Transfer rate up to 200MB/sec for each OR two SCSI-320 Host Channels
- Full-featured single controller architecture
- Multiple Logical Drive configurations, each with a different RAID level
- Up to 64TB per LD
- Up to 1GB SDRAM
- Variable rebuild priority to meet a variety of applications
- RAIDWatch: Browser-based GUI Manager on all major platforms



## Overview

The Comet SATA single RAID controller subsystems are the latest in Caen's highly acclaimed line of SATA RAID products. The Comet subsystem combines either 2 Gbps Fibre or Ultra3 SCSI host channels with 16 SATA drives in a single storage subsystem. This provides users with massive storage capacity in a safe subsystem environment where a high level of data availability is assured. The RAID controller embedded in the Comet RAID controller subsystems ensures unprecedented data security for SATA RAID. The two available models (see table) in this series provide users with versatile options, enabling them to purchase a subsystem that will meet their needs.

The SATA models are able to use up to 16 SATA drives in the subsystem.

## Architecture

Running on architecture trusted by the most demanding applications, the subsystem is capable of a high level of performance. Its 64-bit separate-bus backbone is built around the dedicated XOR engines running at twice the data bus speed. The calculation of parity and distribution of data can be optimized with the free association between individual logical arrays and different optimization modes.

## High Performance

Featuring a 64-bit 133MHz memory bus, the unparalleled bandwidth makes the subsystem's high data throughput more than sufficient for small to mid-sized servers or workstations. Data can be distributed at a burst rate of up to 1066MB/sec. The dual independent PCI bus design eliminates all imminent bottlenecks on IO traffic, providing sufficient throughput for a wide range of applications on SCSI-based PCs, single-user workstations, NT, Linux, or Unix-based servers. These applications include disk-to-disk backup, Video on Demand, CCTV, and stream editing.

## Intelligent Drive Handling

Media Scan is an innovative Intelligent Drive Handling function that can be used for data retrieval from degraded or damaged hard drives. If two bad blocks occur on two member drives of an array, the integrity of the stored data will be endangered. Intelligent Drive Handling capabilities can be used to retrieve data from the damaged sectors. Media Scan is able to handle low quality drives in both the degraded mode and during the rebuild process. Other Intelligent Drive Handling features, which provide further data security, include the transparent resetting of hung hard drives, Power-failure management and bad drive handling during LD expansion.

## Caen Engineering, Inc.

2130 N. Glassell St. · Orange, CA 92865, USA  
Phone: (714) 998-6300 · Fax: (714) 998-6366  
www.caeneng.com · Email: sales@caeneng.com



## SPECIFICATIONS

### Raid Controllers

- State-of-the-art 400MHz RISC processor with 256KB embedded L2 cache
- Infortrend Proprietary ASIC133 with XOR engine and ECC inside
- Standard 128MB - 1GB cache memory in one SDRAM with optional BBU.
- LCD controller panel interface
- System Fan speed / voltage / temperature self-monitoring
- Two RS-232C (Audio Jack) serial ports: One serial port is for text mode management and the other provides UPS support
- One 10/100M Ethernet Port
- 32KB NVRAM with RTC (Real Time Clock)
- Beeper

### RAID Operation

- RAID level 0, 1, 1 (0+1), 3, 5, 10, 30 and 50
- Multiple RAID selection
- Hot-spare drive operation
- Hot-swappable drives
- Automatic background rebuild
- Online drive expansion
- Intelligent Drive Handling

### Host Interfaces

- Two 2Gbps Fibre Channels Or Two SCSI-320 Channels
- SAN ready

### Management Software

- System monitoring via out-of-band Ethernet
- RAIDWatch manager software for all major platforms via an Ethernet port
- Firmware-embedded manager via RS-232C (audio jack) (platform-independent)

### External Connections

- Two SFP ports for dual channel optical Fiber connection OR two mini SCSI ports for external connection
- Two RS-232C (audio jack) serial port (38400, n, 8,1)
- One RJ45 Ethernet port

### Dimensions

Protrusions: (W)446.2mm x (H)131mm x (D) 500mm

Enclosure: (W)485mm x (H)131mm x (D) 532mm

SI/ODM controller board

Board dimensions: 255L x 142W mm Power Consumption (watts, avg.)

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