

# SSC200

VITESSE

## Enclosure Services Interface (ESI) Controller



### APPLICATIONS:

- ▶ Fibre Channel JBODs
- ▶ Disk Arrays
- ▶ RAID Subsystems
- ▶ Servers

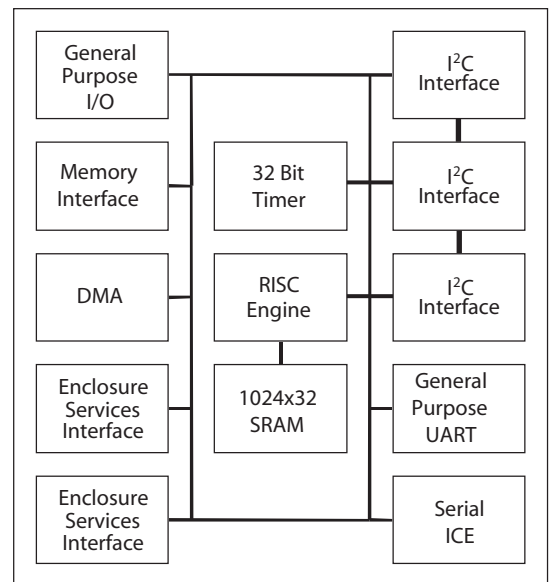
### FEATURES:

- ▶ Device Features:
  - Two Integrated ESI Ports (SFF8067) with DMA
  - Interoperates with Vitesse Fibre Channel Port Bypass Circuits (PBC)
  - Three I<sup>2</sup>C Serial Interface Controllers
  - 32-bit, 40Mhz RISC CPU w/Debug Port
  - IPMI 1.x Compatible
  - RS-232 Monitor Port
  - Four External 1MB Address Ranges
  - Up to 28 Programmable General Purpose I/Os
  - Operates as Initiator or Target
- ▶ Software Development Kit (SDK) Features:
  - Modular Architecture to Support Migration to Other I/O Technologies and Protocols
  - Extensive Peripheral Device Library
  - Sample Personality Module Source Code

### SPECIFICATIONS:

- ▶ 100-pin PQFP Package
- ▶ External Flash and/or SRAM (60ns to 250ns)
- ▶ Internal 4KB SRAM

### SSC200 BLOCK DIAGRAM:



## Enclosure Services Interface (ESI) Controller

### GENERAL DESCRIPTION:



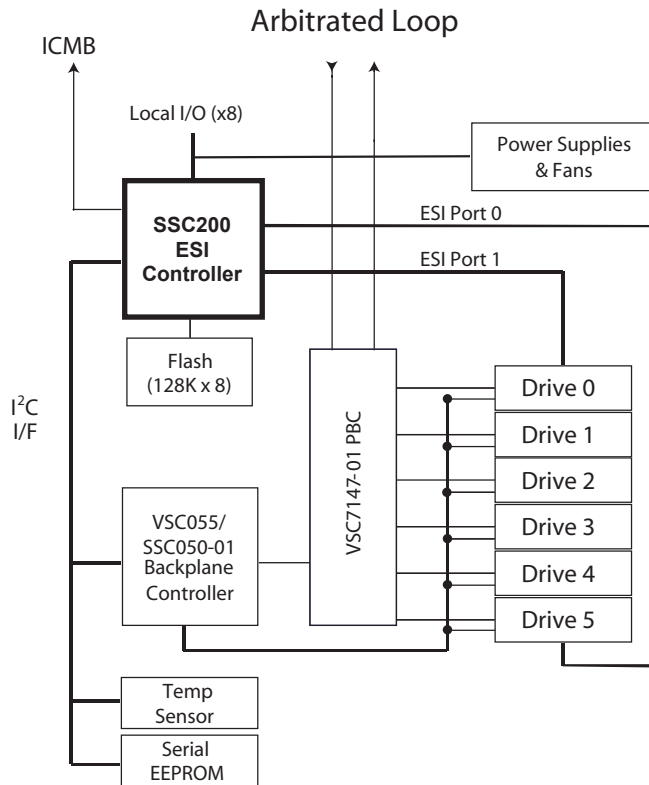
The SSC200 offers two ESI ports for use in Fibre Channel Arbitrated Loop embedded control applications. The device includes a 32-bit, 40Mhz RISC CPU that operates in initiator and/or target modes for diagnostic flexibility, and two integrated ESI ports. Three I<sup>2</sup>C bus master controllers and two UARTs assist in firmware development and out-of-band communication via the Intelligent Platform Management Interface (IPMI).

The SSC200 is ideal for remote monitoring and control applications such as FC-AL JBODs, disk arrays, RAID subsystems, switches and

multi-processor servers. The embedded firmware capabilities of the SSC200 allow storage system architects to differentiate their products via firmware. A complete Software Development Kit (SDK) is provided to accelerate the development of firmware specific to the enclosure.

Furthermore, a key strength of the SSC200 is the ease in which it interoperates with Vitesse Fibre Channel port bypass circuits (PBC), to provide a complete storage control chipset. For example, when coupled with the VSC7147 or the VSC7148, the SSC200 can perform diagnostics, and report status to the host via one of the two ESI ports without interrupting data flow to other resources within the enclosure.

### SSC200 APPLICATION DIAGRAM:



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