DATACOM PRODUCTS

VSC120

VITESSE

VSC120 - 2Gb/s FC-AL2 Enclosure Management Controller

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:

- 160-pin Thermally Enhanced PQFP Package
- External Flash and/or SRAM (60ns to 250ns)
- Internal 16KB SRAM
- 5V or 3.3V Tolerant I/O using 2.5V Core Technology

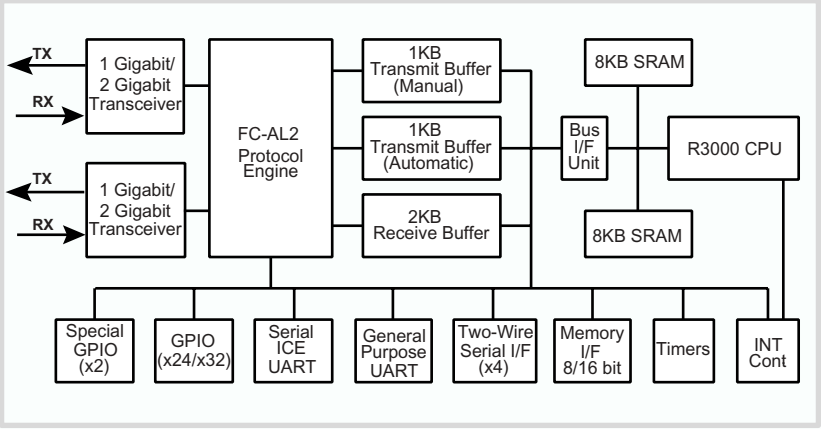
FEATURES:

- Two Integrated 1 or 2Gb/s Serial Transceivers
- Interoperates with Vitesse Fibre Channel Port Bypass Circuits (PBC) and Switches
- IPMI 1.x Compatible
- Private Loop Direct Attach/AL2 Profile
- Four I^2C Serial Interface Controllers
- General Purpose UART with Modem Control
- Up to 34 Programmable General Purpose I/Os
- 32-bit, 53Mhz RISC CPU w/Debug Port
- Eight Optional Fan Speed Monitoring Inputs
- Eight Optional PWM Control Outputs
- Operates as Initiator or Target

APPLICATIONS:

- JBOD Arrays
- SBOD Arrays
- Disk Arrays
- RAID Subsystems
- High Performance Switches
- Multi-processor Servers

VSC120 BLOCK DIAGRAM:



VSC120

VSC120 - 2Gb/s FC-AL2 Enclosure Management Controller

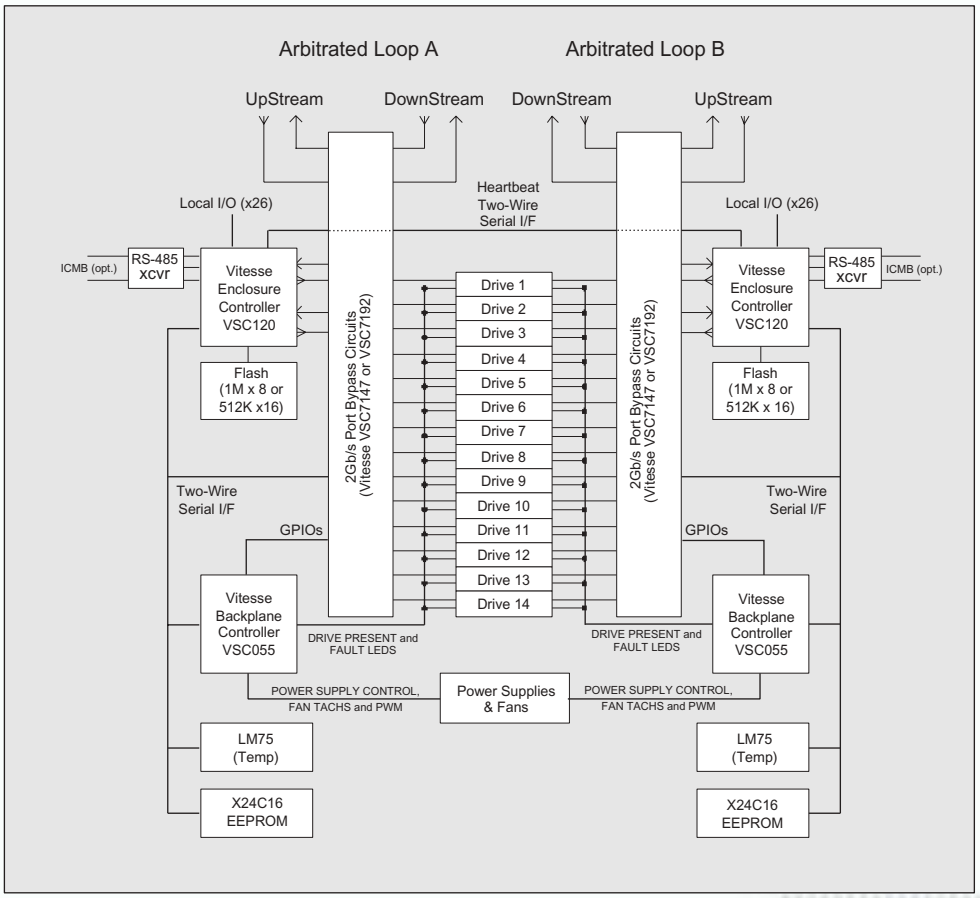
GENERAL DESCRIPTION:

The VSC120 is a high performance version of the industry-leading SSC100. The VSC120 includes a 32-bit, 53Mhz RISC CPU that operates in initiator and/or target modes for diagnostic flexibility, two integrated 1 and 2 Gb/s Fibre Channel serial transceivers for backward compatibility and redundant data paths. Four I²C bus master controllers and two UARTs assist in firmware development and out-of-band communication via the Intelligent Platform Management Interface (IPMI). To reduce board space, the VSC120 provides on-chip fan speed monitoring and Pulse Width Modulation (PWM) control outputs, and up to 34 general purpose I/O's with eight external interrupts.

The VSC120 is ideal for remote monitoring and control applications such as SBOD/JBODs, disk arrays, RAID subsystems, switches and multiprocessor servers. The embedded firmware capabilities of the VSC120 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 VSC120 is the ease in which it interoperates with Vitesse Fibre Channel port bypass circuits (PBC) and switches, to provide a complete storage control chipset. For example, when coupled with the VSC7147 or the VSC7192, the VSC120 can disconnect a disk drive from the loop, perform diagnostics, and report status to the host without interrupting data flow to other resources within the enclosure.

JBOD WITH DUAL LOOPS, DUAL CONTROLLERS AND FOURTEEN DRIVES



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For more information on Vitesse Products visit the Vitesse web site at www.vitesse.com or contact Vitesse Sales at (800) VITESSE or sales@vitesse.com

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