

Solid State System – SSS6692 USB Controller

Overview

The SSS6692 USB controller from Solid State System is of the highest performance solution designed explicitly to support MLC and TLC NAND-type flash with multiple dice data configurations from most of the major flash suppliers. With 24bit/1KB ECC correction ability, advanced technologies on NAND process nodes are fully supported to ensure the highest reliability of NAND management by the controller. The SSS6692 USB controllers have been fully tested and verified with 100% Microsoft™ Windows Vista®/7 compatibility.

One of the key features implemented with SSS6692 is to have the external crystal built into the IC itself. By having eliminated the need of external crystal on conventional PCBA design & layout, the never ending target of total BOM cost saving is reached for increased market competitiveness..

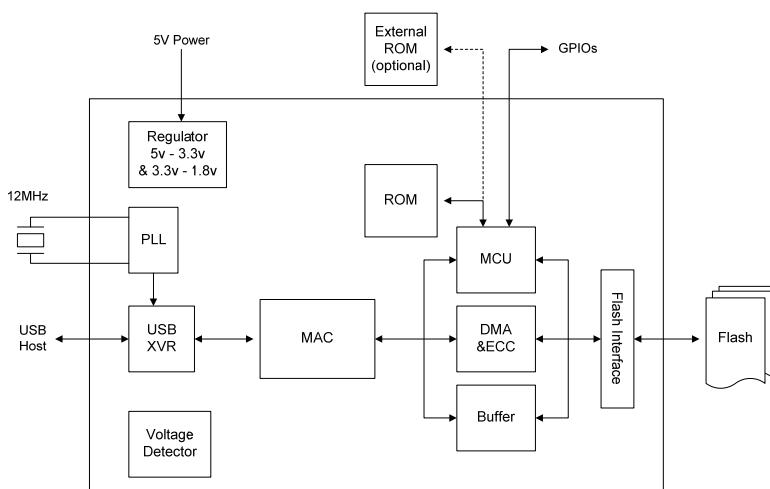
Features

- USB 1.1 & 2.0 specification compliant (480MB/sec)
- Advanced 24-bit/1K BCH ECC supported
- Crystal build-in for total BOM cost saving
- Toshiba™ 43nm MLC and TLC NAND supported
- Toshiba™ 32nm MLC NAND supported
- Samsung® 32nm and 27nm MLC & TLC supported
- Intel® 34nm and 25nm MLC NAND supported
- Global (Static/Dynamic) Wear-leveling
- Customized VID/PID/Serial configuration supported
- Windows® ME/2000/XP/Vista/7 supported
- Windows® Vista/7 ReadyBoost® - Microsoft WHQL compliant
- Mac OS 8.6+ and Linux kernel 2.4.2+ supported



Highlights

- USB 1.1 & 2.0 supported
- Crystal build-in
- TSB 32nm MLC
- SS 32nm & 27nm NAND
- Intel 32nm & 25nm MLC
- Hynix 32nm MLC
- SanDisk 32nm MLC
- CM-die supported
- 4CE available – 48pin
- Windows® XP/Vista/7
- Mac OS 8.6 and above



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