

OnSpec xSil 251 – Hi-Speed USB Extreme Flash Drive R/W Controller

Description



OnSpec's xSil 251 UDMA4 CF and HDD Controller is the world's first UDMA 4 enabled CF controller. It also can interface with Hard Disk drives to provide a compelling external storage solution. The firmware has built-in support for Microsoft's PD-DRM technology in addition to providing an SHA-256 based authentication protocol for implementing Secure access to the Hard disk drive.

OnSpec offers reference designs, firmware, drivers, and manufacturing test software to make product development easy. OnSpec's technology provide optimum throughput and superior flash media compatibility

Features

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Supports NAND SLC, NAND MLC and AG-AND flash media

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Supports CompactFlash media (flash based and hard disk based)

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Full Speed USB (USB1.1) and Hi-Speed USB (USB 2.0), Bus powered.

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Compatible with Microsoft WinXP, WinME, Win2K, SP3, Apple OS X and Linux Multi-Lun Mass Storage Class Drivers

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Win2K, Win98/98SE and Apple OS8.6 and OS9 Multi-LUN Mass Storage Class Drivers Available

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Single chip with integrated USB 2.0 PHY

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Optional Secure partition capability based on SHA-256 algorithm

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Serial port

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Two General Purpose Timers

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Watchdog Timer

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16 bit RISC Processor

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Onboard ROM contains BIOS and Application code.

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Programmable IOR and IOW widths

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Optimum hardware controlled transfer for speed and scalability

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48-pin 7mm x 7mm QFP package (RoHS packaging available)

BlockDiagram

