

OnSpec

xSil 268B Hi-Speed USB Flash Media Reader Controller Chip With Encryption Security - Quick Data Sheet

The xSil 268B is designed to be a high performance controller for reading the new higher speed Flash media to USB interface.

It has the following features:

- 100-pin 16mm x 16mm QFP package
- Single chip with integrated USB 2.0 PHY
- Serial EEPROM port
- Serial port
- Two General Purpose Timers
- Watchdog Timer
- 16 bit Processor
- Programmable Read and Write widths
- Optimum hardware controlled transfer for speed and scalability
- Support for faster SD-HS compliant media with sustained transfer speeds exceeding 20MB/sec for both Reads and Writes.
- Support for UDMA enabled CF media (CF V3.0) that support UDMA Modes 0..4, MDMA Modes 0..2 and PIO Modes 0..6. Transfer speed dependent on the device and host throughput. Maximum theoretical speed is 100MBytes/ sec.
- Support for faster MS PRO media with sustained transfer speeds of up to 18MB/sec for both Reads and Writes.
- Support for faster MMC cards that have 4-bit and 8-bit buses with sustained transfer speeds of up to 20MB/sec for both Reads and Writes. Speed limited by media transfer speed. Maximum theoretical speed for MMC 8-bit media is 52MB/sec.
- Support for SD V2.0 spec media, enhancing the access space up to 32GBytes.
- OnSpec's embedded AES encryption to optionally encrypt in-bound and out-bound data

Device Interfaces

- CompactFlash
- MultiMediaCard/ MMC 4.0 1/ 4/ 8 bit Data bus support
- Secure Digital Card/ Secure Digital HS/ Secure Digital V2.0 cards
- Memory Stick / Memory Stick PRO / Memory Stick HS / MS Duo
- SmartMedia
- NAND 8-bit
- NAND 16-bit
- NAND MLC
- AG-AND
- xD Card

Host Interfaces

- USB 2.0 Hi-Speed
- USB 1.1

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Patents:

This product is covered by one or more of the following patents:

US Pat. 5784584, 5809336, 5841424, 6438638, 6598148, 6832281, 6859361, 6859369

Taiwan Pat. I 222564

China Pat. CN 018152163

S. Korea Pat. KR 476817

Other Foreign & US Patents Pending

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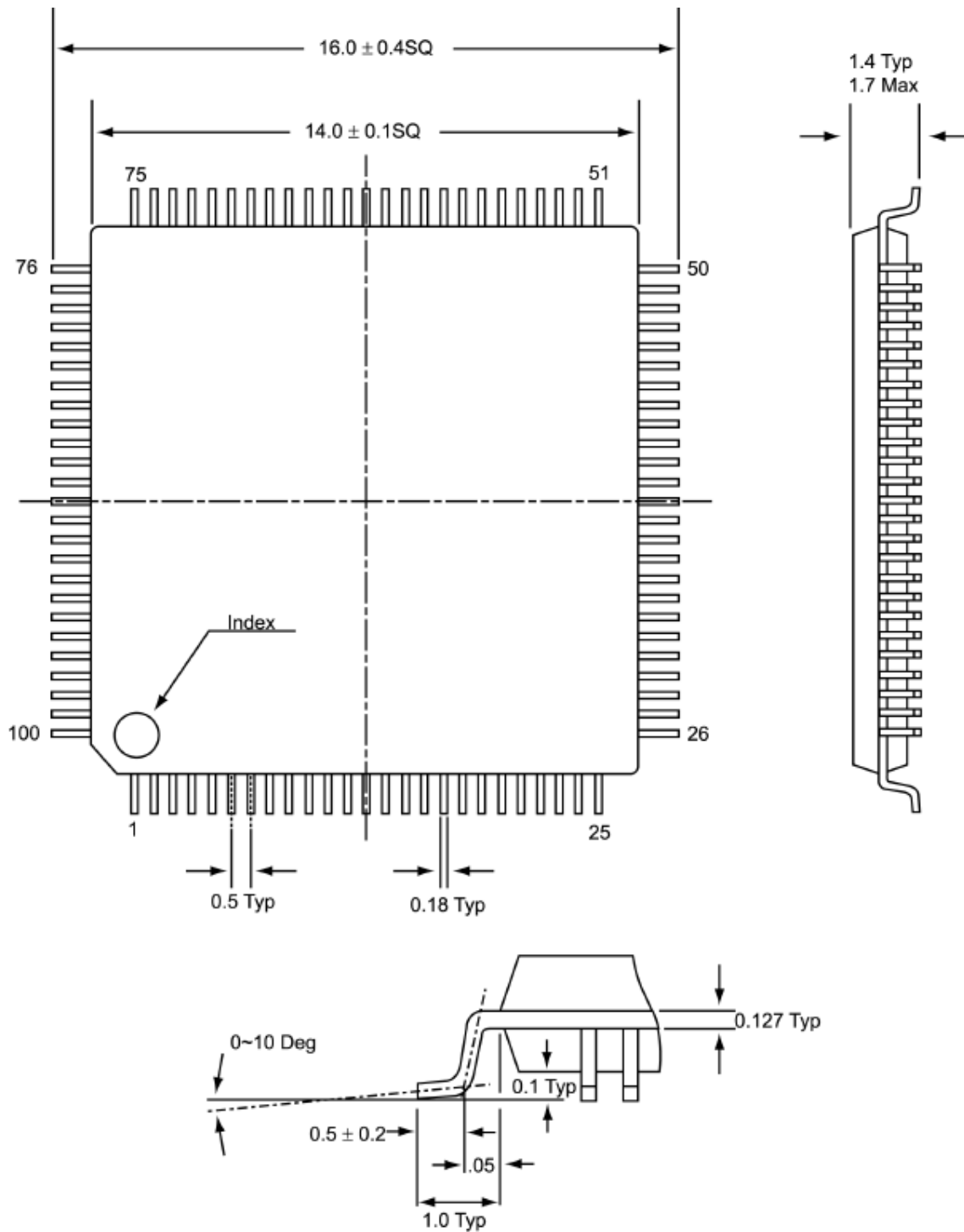
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Mechanical Dimensions



Note: All Dimensions in mm