

PHISON Electronics Corp. Introduces the World's Best NAND Flash Solution

Descriptions

PHISON's PS2251-63 USB-to-Flash micro-controller is an excellent choice for USB 2.0 & 1.1 Interface to NAND Flash Memory. The entire firmware is upgradable thanks to the addition of Programmable RAM, allowing host design flexibility., PS2251-63 is equipped with AES-256 encryption and RSA-512 authentication, ensuring high levels of security to the host and flash memory.

Controller Highlights

- ✦ Complies with USB 2.0 & 1.1 host interface specification
- ✦ Pin-to-pin compatible with PS2230 / PS2231
- ✦ Build-in hardware 12/16/24-bit ECC circuit (BCH)
- ✦ Build-in hardware 512/2048-bit RSA authentication
- ✦ Build-in hardware 256-bit AES encryption
- ✦ Supports 1x8 and 2x8 Flash I/O
- ✦ Windows Vista certified and supports ReadyBoost

Physical Characteristics

- ✦ Fabricated in 0.16um CMOS process
- ✦ Available in 64-pin/ 48-pin QFP package
- ✦ Program RAM (Program Upgradable)
- ✦ Operating Voltage: 2.7~3.6V
- ✦ Built-in Regulator that supports 3.3V/1.8V Flash I/O

USB Interface

- ✦ 12MHz crystal driver circuit
- ✦ Integrated 80C51 compatible 8-bit microprocessor

NAND Flash Support


- ✦ Supports 5X/4X/3Xnm, 8K page and 3 bit-per-cell flash memory
- ✦ Supports up to 8 Chip Enable pins
- ✦ MLC flash Read/Write speed up to 31/11 MB/s

Other Features

- ✦ Build-in static and dynamic wear-leveling
- ✦ Power Saving implemented
- ✦ Supports VID, PID, serial number & vender information update

- Supports high-level secure data storage with RSA-512 and AES-256
- Supports hidden mode

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