

Solid State System SSS8883 ATA Controller

Overview

SSS8883 ATA Flash Disk Module and Solid State Disk controller utilizes the proprietary technology of 3S to control data transfer through ATA bus and translate into memory access to various Nand-Type flash media. Operating with dual channel, SSS8883 could support a maximum capacity of 32GB with SLC Flash. SSS8883 can support UDMA up to Mode 4.

SSS8883 is designed to be a reliable single-chip which provides solutions to serve the storage scenario which needs high data integrity and security such as ATMs, ticket vending machines, parking systems and POS terminals.



Feature

- Conform to ATA 5 Specification.
- Support UDMA 4.
- Support up to 8 flash chip-enable pins.
- Operating with dual channel for performance enhancement.
- Support 4 Symbol /512B ECC.
- Support 2KB/ 4KB SLC Flash.
- Auto Standby and Sleep Mode supported.
- Assure a high reliability based on the Static wearleveling which would optimize the flash erase count.
- Complete IPC from main brands.
- IDE disk allows users to install OS (Windows, Linux), transfer the data in strict application such as Industrial PC.
- S.M.A.R.T Feature supported.
- Security Feature supported.
- Operating temperature;
 - Commercial: 0~70°C
 - Extended: -40~85°C

Highlights

- ATA 5.0 Specification
- UDMA4
- Dual Channel
- Built-in 4 Symbol ECC
- Support up to 8 flash CEs
- Excellent performance with small filed
- Support Static wearleveling
- Pass Strict Powercycling Test
- S.M.A.R.T supported
- Security supported
- Max. Capacity: 32GB

Application

- Flash Disk Module
- Solid State Disk
- Embedded Application

Package

- LQFP 100 - pin package

