

SSS5800(88NV1120) SATA 3.0 SSD Controller

Overview

Solid State System **SSS5800**(88NV1120) SATA 6Gbpsx1 SSD controller is two flash channels DRAM-less solution designed explicitly to support 2D/3D TLC NAND-type flash for Client SSD market. With 3rd generation LDPC technology, and abundant NAND technology knowledge, the controller ensures the highest reliability and endurance of NAND management. Using Low-Power CMOS process technology, **SSS5800**(88NV1120) delivered high performance, excellent stability, and cost-effective DRAM-less SATA SSD solution which applies on M2, 2.5" and small form factor application.



Features

- 28nm CMOS Process Node Technology
- CPU Dual ARM Cortex R5 up to 320Mhz
- AHCI supported
- L1.2 Low Power supported
- 3rd Generation LDPC supported
- Compliant with Serial ATA Revision 3.2
- PIO, DMA, and FPDMA protocols supported
- ATA Command supported
- 32 Native command queuing(NCQ) supported
- SATA power management supported
- Self-Monitoring Analysis and Reporting Technology S.M.A.R.T. supported
- 2 flash Channel, Up to 4 CE
- ONFI 3.0/ Toggle2.0 NAND supported
- Toshiba™ 2D/3D TLC NAND
- SanDisk® 2D/3D TLC NAND
- Intel®/Micron® 3D TLC NAND
- Hynix® 2D/3D TLC NAND
- 144 Pins 8x8 TFBGA Package

Highlights

- CPU Dual ARM Cortex R5
- AHCI supported
- 3rd Generation LDPC supported
- Compliant with Serial ATA Revision 3.2
- S.M.A.R.T. supported
- 2 Channel, Up to 4 CE
- ONFI 3.0/ Toggle 2.0 supported
- TSB 2D/3D TLC
- SanDisk 2D/3D TLC
- Micron 3D TLC
- Intel 3D TLC
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- 144 Pins TFBGA Package

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