

PRODUCT OVERVIEW

SA3636 is an intelligent eMMC5.1 controller especially tailored for embedded-NAND oriented application with interface speed support up to 400MB/s (HS400); not only fully complies with JEDEC eMMC 5.1 spec, but also backward compatible to legacy ones (eMMC4.3 ~ eMMC5.01). High-performance and low-power are achieved by adopting a powerful 32-bit CPU, patented architecture, StorArt's new LDPC ECC engine for reliability enhancement, dynamic power management and advanced process technology, making it suitable for portable applications like smart phones, tablets, e-books, GPS, gaming consoles and other embedded systems.

KEY FEATURES

- Support 3D TLC/QLC flash
- Support VCC=2.5V/3.3V; VCCQ=1.8V/1.2V Flash
- Support SDR/ONFi 4.x/Toggle 3.0 interface
- Single channel with 4 chip selection
- Support maximum of 4-way interleave operation per channel
- Support 4K/8K/16K page size
- Support 1/2/4 plane flash
- StorArt's new LDPC ECC engine
- Global Wear Leveling (erase count base)
- Support Program Error Recovery



BLOCK DIAGRAM

