SA3201EN

PRODUCT OVERVIEW

SA3201EN is an advanced single channel SD2.0 memory card controller of StorArt which is compliant with SD2.02 SDA industry standard and backward compatible to the legacy spec. (SD2.02/SD1.1). It aims to deliver a high performance, low power, cost-effective and value-added solution for SD-oriented applications. SA3201EN is built in with single channel high speed flash interface with BCH ECC, and is developed for passing various test criteria and environment. Therefore, SA3201EN can demonstrate superior Read/Write performance, IOPS, reliability and host compatibility.

KEY FEATURES

- Support 3.3V power supply
- Compatible with SD card V1.01/V1.1/V2.02
- Support Bus Speed Mode: Default Speed/ High Speed
- Support NAND Flash -1x/1y/1z nm & SLC/MLC/TLC
- Support ONFi3.0, Toggle2.0 Flash
- Support 1-Channel & 4 way interleave
- Single channel with 4 chip selection
- Support 1/2/4 plane flash
- Build-in configurable ECC
- Global Wear Leveling(erase-count based)
- Support Content Protection for Recordable Media(CPRM)
- Support ISP(In-System Programming) for FW upgrade
- Support embedded temperature sensor
- Highly-integrated with built-in POR/VDR/LDO, minimizing the numbers of external passive components

BLOCK DIAGRAM