

AX211 SD Card Controller



CPU Features

- 1T 32-Bit RISC CPU, optimized for SD, NAND Flash applications
- MAX 50 MIPS performance with on chip RC oscillator and PLL

SD Interface Features

- Fully Supports SD card standard 1.0/1.1/2.0
- Supports SD high capacity standard
- Supports SPI mode
- Supports Command class 0/2/4/5/6/7/8/10
- Supports CPRM
- Speed class up to 6
- Supports host clock up to 50MHz
- Supports bus width X1/X4
- Supports SD host function
- Enhanced ESD protection

NAND Flash Interface Features

- Supports small or large page NAND flash
- Supports SLC or MLC NAND flash
- Supports Two-Plane or Interleave NAND flash
- Supports X8/X16 NAND flash
- Supports parallel mode
- Supports up to 8 CE
- Built in 6-54bit/page(528 bytes) on-the-fly ECC
- Data protection during data transfer if unplugged/power off

Low Power Consumption

- Operating current is about 10mA during data transfer
- Supports Sleep Mode, current is less than 200uA during Sleep Mode
- Fast wake up during Sleep Mode

Package

- 48-pin TQFP or QFN package
- Die form

高性能 CPU

- 高速 32 位精简指令集架构
- 内置 RC 振荡器及锁相环，可达 50MIPS

SD 卡接口

- 支持 SD 卡 v1.0, v1.1, v2.0
- 支持 SD 大容量标准
- 支持 SPI 模式
- 支持 command class 0/2/4/5/6/7/8/10
- 支持 CPRM
- 可调 6 级速率
- 支持时钟达 50MHz
- 支持汇流排宽度 X1/X4
- 支持 SD host
- 支持 ESD 保护阵列

NAND 闪存接口

- 支持小 page 和大 page 类型 NAND 闪存
- 支持 SLC 和 MLC 类型 NAND 闪存
- 支持 Two-Plane 和 Interleave 功能 NAND 闪存
- 支持 8 位和 16 位 NAND 闪存
- 支持双通道
- 支持 8 片选
- 内置 ECC 电路
- 突然掉电保护功能

低功耗

- 传输资料时电流约 10mA
- 支持睡眠模式，电流少于 200uA
- 快速唤醒功能

封装

- 48 管脚 TQFP 或 QFN 封装
- 裸片



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