

# CS823A

(USB2.0 SD Card Reader)

The CS823A is a USB 2.0 SD/MMC Flash Card Reader working at USB2.0 port. It supports USB 2.0 high-speed transmission to Secure Digital™ (SD), SDHC, SDXC, miniSD, microSD (T-Flash), MultiMediaCard™ (MMC), RS-MMC, MMCmicro, MMCmobile. The U0909A complies with Universal Serial Bus specification rev. 2.0, USB Storage Class specification ver.1.0, and SD/MMC card interface specification.

The U0909A-A integrates a high speed 8051 microprocessor and a high efficiency hardware engine for the best data transfer performance between USB and flash card interfaces. Use GL823 as the main chip IC.

## Specification

- **USB specification compliance**
  - Comply with 480Mbps Universal Serial Bus specification rev. 2.0
  - Comply with USB Storage Class specification rev. 1.0 : Standard Device Driver available.
- **Integrated USB building blocks**
  - USB2.0 transceiver macro (UTM), Serial Interface Engine (SIE), Build-in power-on reset (POR) and low-voltage detector (LVD)
- **Embedded 8051 micro-controller**
  - Operate @ 60 MHz clock, 12 clocks per instruction cycle
  - Embedded mask ROM and internal SRAM
- **Standard Size SD Card Slot: Secure Digital™ (SD) and MultiMediaCard™ (MMC)**
  - Support SD specification v1.0 / v1.1 / v2.0/ SDHC (Up to 32GB)
  - Compatible with SDXC (Up to 2TB)
  - Support MMC specification v3.x / v4.0 / v4.1 / v4.2.
  - x1 / x4 bit data bus
- **Provide Over-Current protection mechanism for safety power supply for SD card.**
- **On-Chip power MOSFETs for supplying flash media card power**
- **Support Power Saving mode/ Selective suspend mode for better power management.**

## CS823A Package Contents



**CS823A \*1**  
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