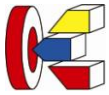


1. General Description

The FC1307A is a highly integrated solution for multi-channel SDHC interface to Compact-Flash/IDE interface application. It can handle data process between one slave Compact-Flash/IDE and up to four host SDHC interface. FC1307A built-in function which can speed/size up 4-channel SDHC host interface to Compact-Flash/IDE interface. FC1307A is fully compatible with the Compact-Flash standard 4.1 as well as the SDHC 2.0.

2. Features

- 2.1 Compliant with PC Card Standard 8.0
- 2.2 Compliant with PCMCIA 2.1/JIEDA 4.2
- 2.3 Compliant with ATA/ATAPI-6
- 2.4 Compliant with Compact Flash (CF+) 4.1
- 2.5 Compact Flash storage card mode using PC card memory , PC card IO and True-IDE modes
- 2.6 Support the following modes on the Compact Flash/CF+ interface
 - 2.6.1 PC card memory mode and PC card IO mode of operation using either an 8-bits or 16-bits wide data
 - 2.6.2 Attribute memory , common memory and IO access in PC card/PCMCIA mode.
- 2.7 Support advanced timing modes for memory/IO access (CF+ rev4.1)
- 2.8 Support PIO mode-0 thru mode-6.
- 2.9 Support Multi-word DMA mode-0 thru mode-4.
- 2.10 Support Ultra DMA mode-0 thru mode-6.
- 2.11 General SPI interface signal control
- 2.12 General purpose IOs
- 2.13 Expandable 4-channel SD HOST module



A. Application<1>:

SD Card / TransFlash™ to Type I / II CF Card

Functional Description

- A.1 Transferring high-speed SD Card to high-speed Type I/II CF Card.
- A.2 Suitable for Type I/II UDMA CF supported DSLR to use high-speed SD Card as a storage media.
- A.3 Suitable for industrial PC or hand-held device equipped with Type I/II CF socket.

Specifications

Input Socket	SD system Spec 2.0
	MMC system Spec 4.0 compatible
	SD system Spec 3.0 compatible
Output Interface	High-Speed Type I/II CompactFlash
Supporting Card	SDHC 4GB~32GB / Class 2~10
	SD 8MB~2GB / Class 2~10
	miniSDHC 4GB~32GB / Class 2~10 (w. adapter)
	miniSD 8MB~2GB / Class 2-10 (w. adapter)
	microSDHC 4GB~32GB / Class 2~10 (w. adapter)
	microSD 8MB~2GB / Class 2~10 (w. adapter)
	SDXC > 32GB
Supporting OS	Windows / Mac OS / Linux
Safety Approval	CE / FCC
Dimensions	Type II: 42.8 mm(L)* 36.4 mm(W)* 5.0 mm(H)
	Type I : 42.8 mm(L)* 36.4 mm(W)* 3.3 mm(H)
Weight	≒ 10g

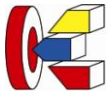
For SD Card



For TransFlash Card



2 TransFlash card to CF card



B. Application<2>:

Multi SD Card / TransFlash™ to IDE DOM

Functional Description

- B.1 Transferring high-speed SD Card to UDMA IDE SSD / DOM.
- B.2 Supports UDMA data transfer mode.
- B.3 Equipped with IDE master/slave switch.
- B.4 Suitable for any PC or industrial PC equipped with IDE interface.
- B.5 Ideal solutions to replace IDE DOM/SSD.

Specifications

Input Socket	SD system Spec 2.0 compatible
	MMC system Spec 4.0 compatible
	SD system Spec 3.0 compatible
Output Interface	Standard IDE (40-pin)
Supporting Card	SDHC 4GB~32GB / Class 2-10
	SD 8MB~2GB / Class 2-10
	SDXC > 32GB
	MMC All Capacities
IDE Mode	UDMA5/6
Supporting OS	Windows / Mac OS / Linux
Input Power	5V / 4-pin 90-degree Wafer
Working Power	5V / 3.3V
Safety Approval	CE / FCC
Dimensions	56 mm(L)* 46 mm(W)* 6 mm(H)
Weight	≒ 12g/9g

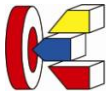
For SD Card



For TransFlash Card



4 TransFlash Card to IDE DOM



C. Application<3>:

Multi SD Card / TransFlash™ to SATA SSD / DOM

Functional Description

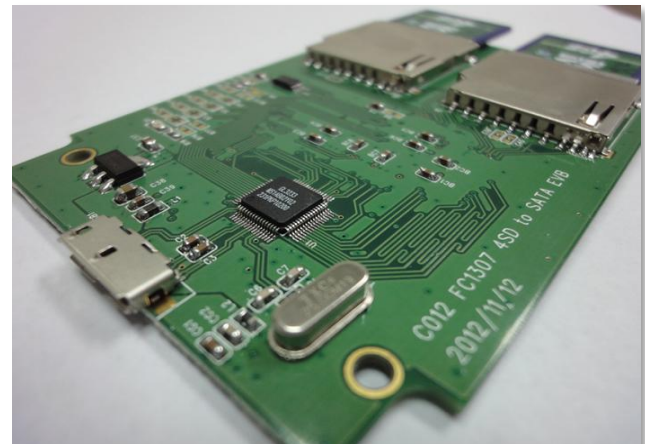
- C.1 Transferring high-speed SD Card to UDMA SATA SSD / DOM.
- C.2 Supports UDMA data transfer mode.
- C.3 Equipped with SATA master/slave switch.
- C.4 Suitable for any PC or industrial PC equipped with SATA interface.
- C.5 Ideal solution to replace SATA DOM/SSD.

Specifications

Input Socket	SD system Spec 2.0 compatible
	MMC system Spec 4.0 compatible
	SD system Spec 3.0 compatible
Output Interface	Standard SATA (7+15pin)
Supporting Card	SDHC 4GB~32GB / Class 2-10
	SD 8MB~2GB / Class 2-10
	SDXC > 32GB
	MMC All Capacities
IDE Mode	UDMA6
Supporting OS	Windows / Mac OS / Linux
Working Power	5V / 3.3V
Safety Approval	CE / FCC
Dimensions	73 mm(L)* 50 mm(W)* 5 mm(H)
Weight	≒ 30g



Multi SD Card to SATA SSD/DOM



Multi SD Card to USB3.0