

SD-ATA Disk [SDATA3S-(HC)-xG] Users Manual [Ver1.1]

Introduction

Thank you very much for purchasing SD-ATA Disk [SDATA3S-(HC)-xG] that adopts SD cards, high-speed, large capacity and compatible with 3.5 inch serial ATA (SATA) HDD ("HC" of part number means SDHC support version and "x" means total capacity (GB) of attached SD cards). Please read this user manual carefully before use this product (SD-ATA).

Notice of the application

Please observe the following notices when using SD-ATA.

- [1] Use attached SD cards. If you prepare SD cards, all cards must be same part number (same brand, same capacity and same speed). Use SDHC SD card for SDATA3S-HC-xG, and use normal SD card for SDATA3S-xG.
- [2] SD cards must be used 8 cards as pair. Do not use by the other number of piece.
- [3] Do not remove SD card and power connector during data transmission. SD card might be broken or lost data.
- [4] Do not exchange SD cards that data is written by SD-ATA with other SD card socket. Data might be broken.
- [5] SD card socket is pushed type. Please push SD card when you want to remove SD card.
- [6] Power supply is 5V(more than 650mA). You can use power supply connector for PC or SATA power connector. **Do not use both power connectors at same time.**
- [7] Install connector and jumper firmly when it is used in vibration environment. If you use SATA combination cable, you can apply 3mm hole near SATA connector on the board to fix the cable by using bind.
- [8] Be careful static electricity. It might destroy the device.
- [9] When you use several SD-ATA, you can use jumper to set ID. Each SD-ATA should have different setting (ID).
- [10] Please use inch size screw when SD-ATA is attached.

[Limitation]

Maximum burst length of MultiModeDMA is 1sector (512bytes). One PC can connect up to 4 SD-ATA.

Connection

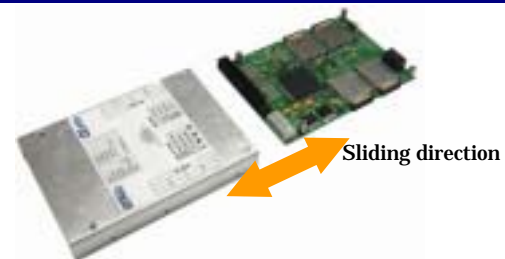
Connection step is as following.

- [1] Check power of PC is turn off.
- [2] Connect PC and SD-ATA by serial ATA cable.
- [3] Connect power supply cable. If you use SATA power cable, do not connect general power connector (for PC) and power cable.

Attach/Replace SD card

Follow below steps to attach and replace SD cards.

- [1] Remove screw on the case and eject SD-ATA board from the case.
- [2] Attach or remove SD cards. Inserting SD cards should be 8 pieces as pair.
- [3] Put SD-ATA board into the case and fix by screw.



LED Status

On SD-ATA board, there are LED that shows Ready status (green), ATA access (red) and SD card status (red, 8pcs). LED lighting status are shown at Table 2.

Table 2 LED status

LED	Color	Status
Ready	Green	Ready: Turn on
ATA Status	Red	ATA access: Blink
SD card Status	Red	Ready: Turn on SD card access: Blink

Qualifications

SD-ATA uses semiconductor components designed for generic electronics equipment. Do not incorporate the product into devices which can directly threaten human life or pose a hazard to the body or property due to a malfunction or failure.

Design Gateway Co., Ltd. does not have any responsibility for damage of PC, other devices and data in SD cards caused by using SD-ATA.

Design Gateway Co., Ltd. does not guarantee SD cards that you use. There is the list of SD cards that we just checked operation in our website (<http://www.dgway.com/products/SDATAdisk/>). * It is reference, does not guarantee.

[Inquiry]

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