C-Ming Technology Co., Ltd.

Product Definition

☑ No-brand Product ☐ OEM/ODM Product
☐ Semi-finished Product ☐ Component

MSDPAI-C01

MicroSD to UDMA PATA Adapter / IDE DOM

Specifications for Approval

Approval	Manager	Issued By

Revision History

Revision	Date	Description	PM
Rev 2.0	July 4, 2011		Phil

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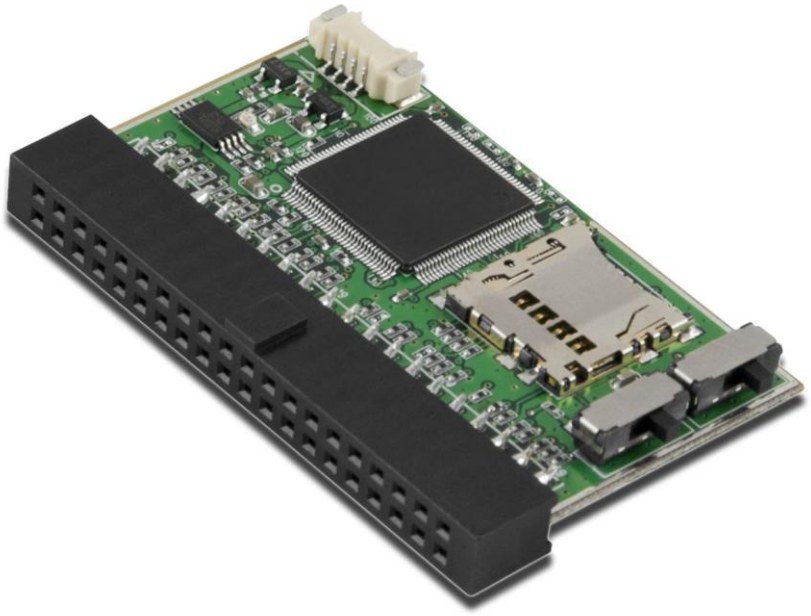
1 Introduction



C-Ming Technology proudly presents you a perfect solution for converting the MicroSD card to UDMA Parallel ATA (IDE) disk drive. MSDPAI-C01 supports UDMA IDE and the access rate is faster then any similar products ever. It is an ideal solution to replace any IDE interface DOM or SSD.

MSDPAI-C01 supports converting MicroSD, MicroSDHC, and even the next generation MicroSDXC to UDMA IDE interface. With MicroSD inserted, it is just the same as an IDE DOM or IDE SSD but would be much cheaper than any of them.

MSDPAI-C01 supports UDMA-3 transfer mode, and the access speed is faster than any similar products ever. Any similar products always seriously slow down the access rate of inserted card. However with MSDPAI-C01 this situation would never happen; it can show the real speed of inserted MicroSD card.

MSDPAI-C01 is very convenient for any system equipped with IDE interface, like Desktop PC, industrial PC, Mini-ITX board, PC/104 board, embedded system, HTPC, set-top box, etc. Replace the expensive IDE DOM / SSD and get the power of MicorSD, just contact **C-Ming Technology** now!

* **Please be noted that to be compatible with MicroSDXC, the working OS of the device must supports exFAT (FAT64) file system.**
* **Currently the adapter cannot support UHS-1 access speed.**

2 Features and Specifications

2.1 Features

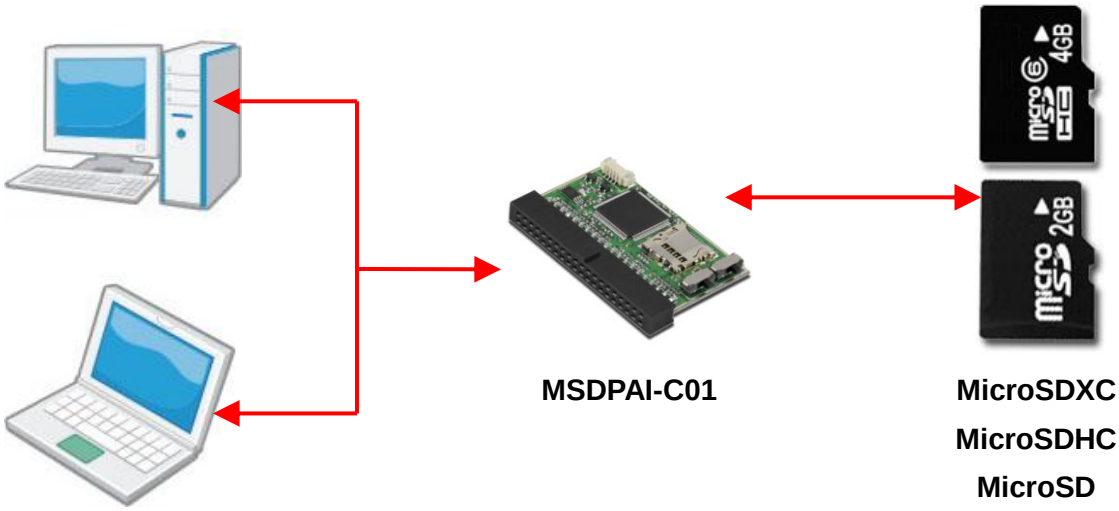
- Compatible with MicroSDHC / MicroSD (SD system Spec 2.0).
- Compatible with MicroSDXC (SD system Spec 3.0).
- Standard IDE 40-pin host interface.
- IDE host interface is compatible with ATAPI-5
- Supports UDMA-3 transfer mode.
- Equipped with EEPROM for future firmware update.
- Equipped with push-push MicroSD socket for easy card insertion / extraction and holding the inserted MicroSD tight.
- Equipped with device master/slave switch.
- Equipped with data write-protect / write-able switch.
- Supports Windows / Mac OS / Linux.
- Ideal and cheap solution to replace any IDE DOM / SSD.
- Suitable for Desktop PC, Industrial PC, and embedded system.

2.2 Specifications

Socket		
MicroSD (Push-Push)	•	MicroSDHC / MicroSD (SD system Spec 2.0) • MicroSDXC (SD system Spec 3.0)
Host Interface		
Standard IDE (40-pin)		
Supporting Cards		
MicroSDHC	•	4GB~32GB, Class 1-10
MicroSD	•	8MB~2GB, Class 1-10
MicroSDXC	•	>32GB
Data Transfer Rate		
IDE Mode	•	UDMA3
Supporting OS		
Windows / Mac OS / Linux		
Safety Approval (Under Application)		
CE / FCC		
Input Power / Power Connector		
5V / 4-Pin 90-degree Wafer		
Working Power		
3.3V / 5V		
Physical Character		
Length	•	55.6 mm
Width	•	34.95 mm
Height	•	5.95 mm
Weight		
≒9g		

*** Please be noted that to be compatible with MicroSDXC, the working OS of the device must supports exFAT (FAT64) file system.**

2.3 Application Diagram



Desktop PC
Industrial PC
Embedded System

MSDPAI-C01

MicroSDXC
MicroSDHC
MicroSD

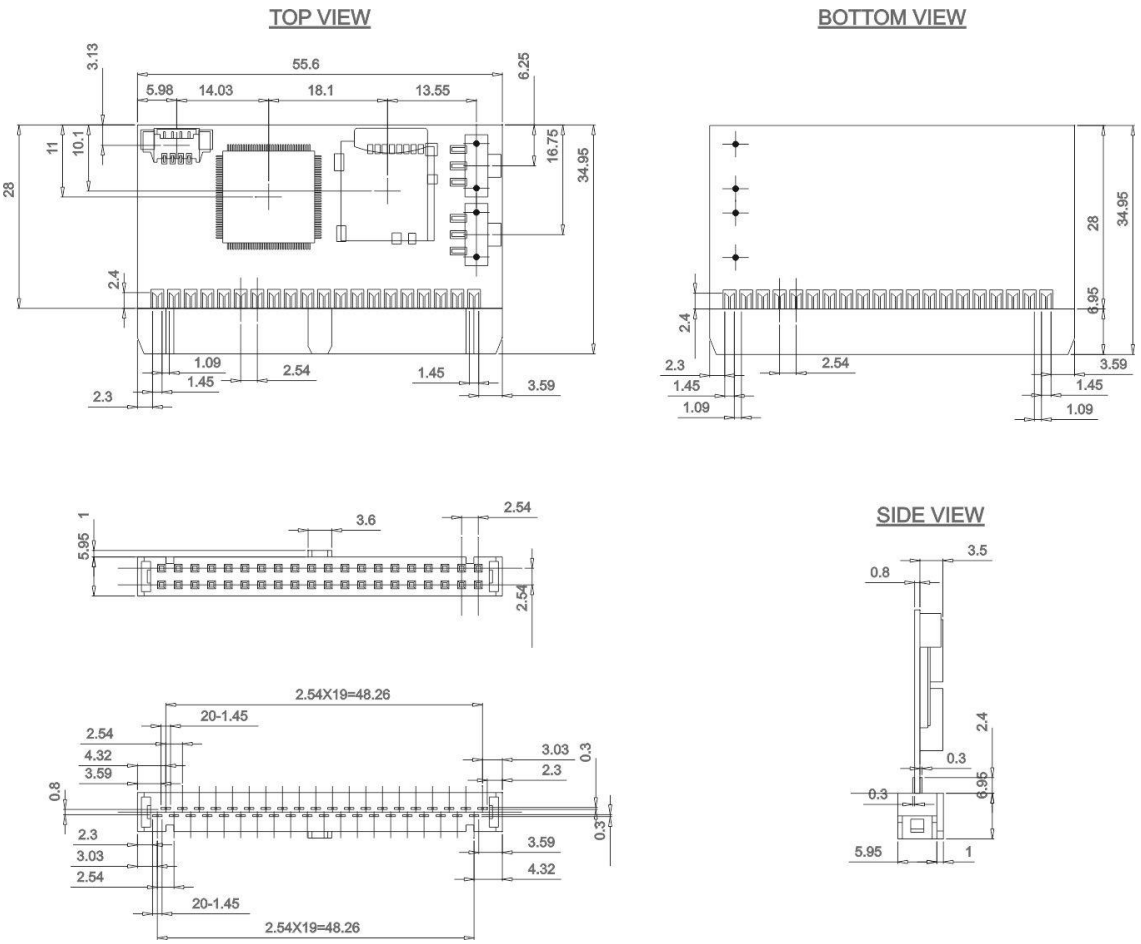
3 Accessories

3.1 Standard Accessories

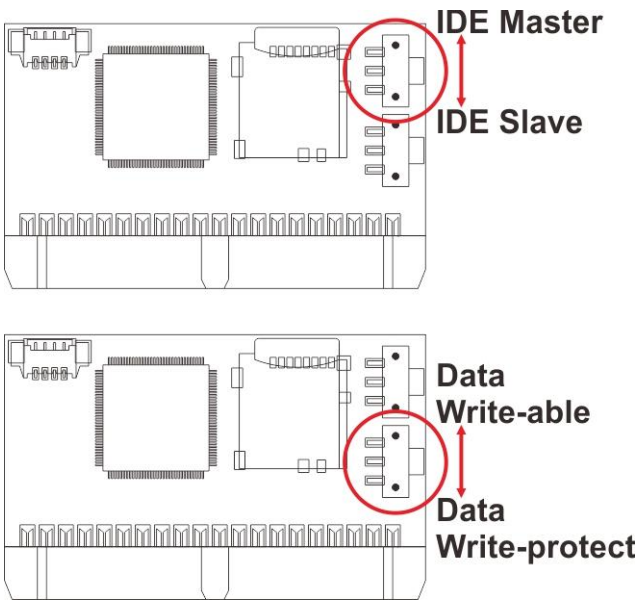
- MSDPAI-C01 Adapter x1
- Power Cord x1

4 Mechanical Information

4.1 Dimensions



4.2 IDE Device Switch / Data Write-Protect Switch



5 Package (TBD)

6 Safety Certificate (Under Application)

Appendix