



# C-Ming Technology Co., Ltd.

## Product Definition

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

## **SDPAI-C01**

**SD to UDMA PATA Adapter / IDE DOM**

## **Specifications for Approval**

<b>Approval</b>	<b>Manager</b>	<b>Issued By</b>

## Revision History

<b>Revision</b>	<b>Date</b>	<b>Description</b>	<b>PM</b>
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 SD card to UDMA Parallel ATA (IDE) disk drive. SDPAI-C01 supports UDMA IDE and the access rate is faster than any similar products ever. It is an ideal solution to replace any IDE interface DOM or SSD.

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

SDPAI-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 SD. However with SDPAI-C01 this situation would never happen; it can show the real speed of inserted SD card.

SDPAI-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 SD, just contact **C-Ming Technology** now!

- \* Please be noted that to be compatible with SDXC, 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

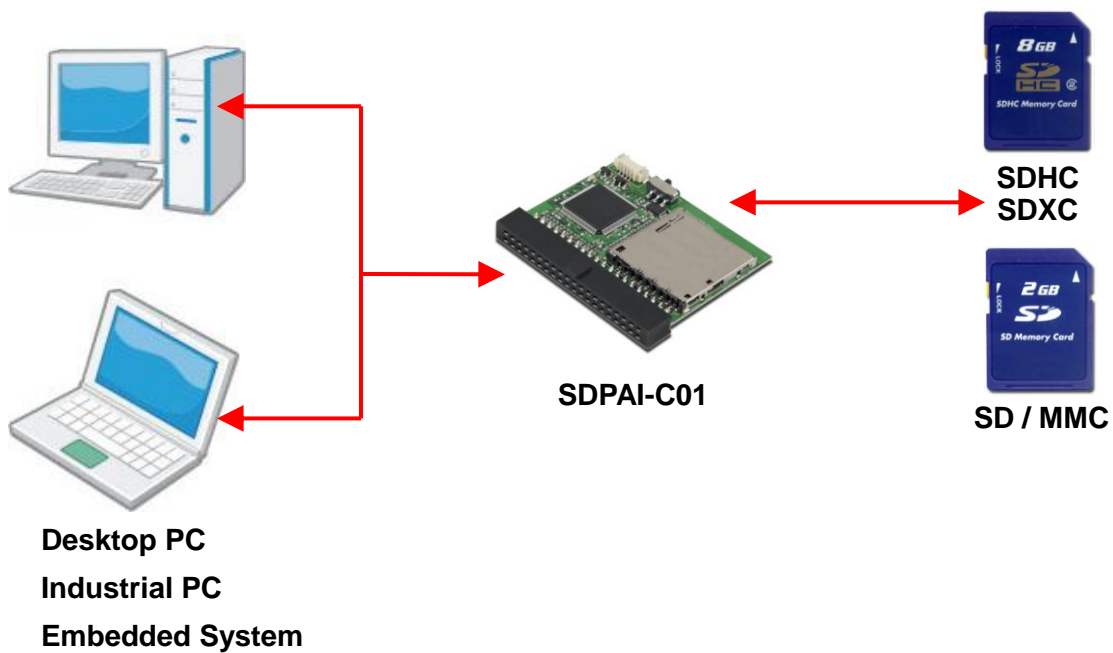
- Compatible with SDHC / SD (SD system Spec 2.0).
- Compatible with SDXC (SD system Spec 3.0).
- Compatible with MMC (MMC system Spec 4.0).
- Standard IDE 40-pin host interface.
- IDE host interface is compatible with ATAPI-5
- Supports UDMA-3 transfer mode.
- Equipped with EEPROM for future firmware update.
- Equipped with push-push SD socket for easy card insertion / extraction and holding the inserted SD tight.
- Equipped with device master/slave 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

<b>Socket</b>	
SD (Push-Push)	<ul style="list-style-type: none"> <li>SDHC / SD (SD system Spec 2.0)</li> <li>SDXC (SD system Spec 3.0)</li> <li>MMC (MMC system Spec 4.0)</li> </ul>
<b>Host Interface</b>	
Standard IDE (40-pin)	
<b>Supporting Cards</b>	
SDHC	<ul style="list-style-type: none"> <li>4GB~32GB / Class 1-10</li> </ul>
SD	<ul style="list-style-type: none"> <li>8MB~2GB / Class 1-10</li> </ul>
SDXC	<ul style="list-style-type: none"> <li>&gt;32GB</li> </ul>
MMC	<ul style="list-style-type: none"> <li>All Capacities</li> </ul>
<b>Data Transfer Rate</b>	
IDE Mode	<ul style="list-style-type: none"> <li>UDMA3</li> </ul>
<b>Supporting OS</b>	
Windows / Mac OS / Linux	
<b>Safety Approval (Under Application)</b>	
CE / FCC	
<b>Input Power / Power Connector</b>	
5V / 4-Pin 90-degree Wafer	
<b>Working Power</b>	
3.3V / 5V	
<b>Physical Character</b>	
Length	<ul style="list-style-type: none"> <li>55.6 mm</li> </ul>
Width	<ul style="list-style-type: none"> <li>45.95 mm</li> </ul>
Height	<ul style="list-style-type: none"> <li>5.95 mm</li> </ul>
<b>Weight</b>	
≐ 12g	

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

## 2.3 Application Diagram



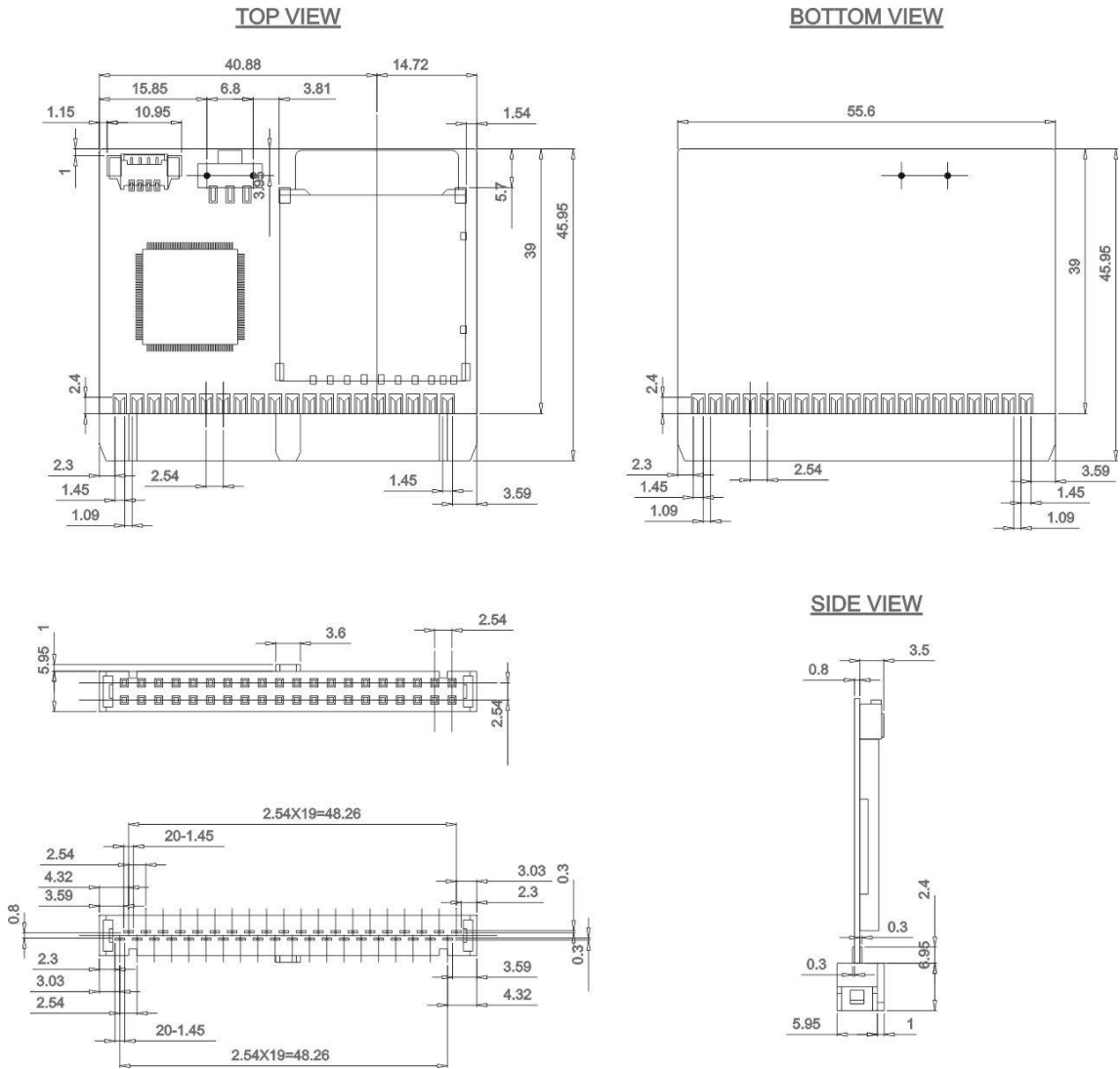
## 3 Accessories

### 3.1 Standard Accessories

- SDPAI-C01 Adapter x1
- Power Cord x1

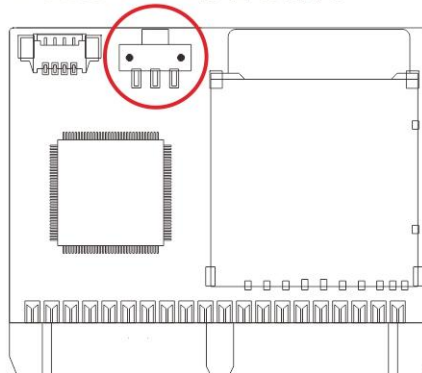
## 4 Mechanical Information

### 4.1 Dimensions



### 4.2 IDE Device Switch

IDE Master ← → IDE Slave



## 5 Package (TBD)



## 6 Safety Certificate (Under Application)

## Appendix