

Mustpoint 8541644176

Mustpoint SD SDHC MMC to 3.5" 40Pin Male IDE Adapter Card User Manual

Model: 8541644176

INTRODUCTION

The Mustpoint SD SDHC MMC to 3.5" 40Pin Male IDE Adapter Card allows you to utilize SD, SDHC, or MMC flash memory cards as a compact, cost-efficient, and reliable replacement for traditional 3.5" IDE hard disk drives. This adapter is designed for IT engineers and embedded technology enthusiasts seeking an alternative for data storage, transfer, or testing in systems requiring a fast and easily bootable device, such as older PCs or POS systems. It functions as both an IDE hard disk and an SD/MMC card reader/writer.

SETUP

Follow these steps to properly install your Mustpoint SD to IDE Adapter Card:

- 1. Prepare the SD Card:** Ensure your SD, SDHC, or MMC card is formatted and contains the necessary operating system or data you wish to use. The adapter supports SD Memory Card specification 1.1, MMC specification 2.0, and SDHC Memory Cards. While officially supporting up to 32GB SDHC cards, some users have reported success with cards up to 128GB, though compatibility can vary with specific card types.
- 2. Insert SD Card:** Carefully insert the prepared SD card into the standard SD socket on the adapter. Ensure it is fully seated.
- 3. Connect to IDE Port:** Connect the 40-pin male IDE connector of the adapter to a 40-pin IDE ribbon cable on your motherboard or host system. This adapter functions as a master device; it does not support secondary device configuration on the same IDE ribbon.
- 4. Connect Power:** Connect a D-type 4-pin power connector or a small 4-pin power connector from your system's power supply to the corresponding power input on the adapter.
- 5. BIOS Configuration:** For optimal performance and compatibility, some motherboards may require specific BIOS settings. It is recommended to enable LBA (Logical Block Addressing) mode and disable DMA (Direct Memory Access) transfer mode for the IDE channel to which the adapter is connected.

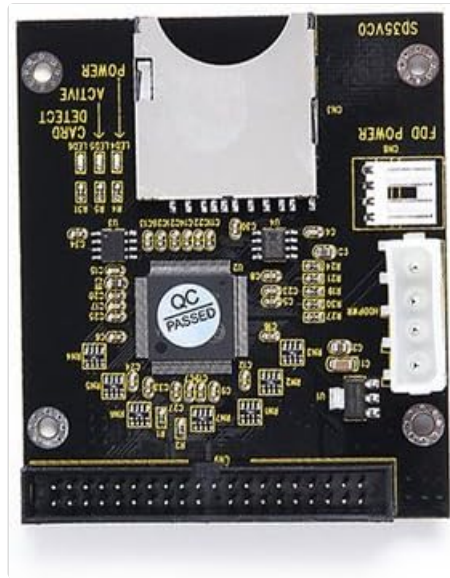


Figure 1: Top view of the Mustpoint SD to IDE adapter card, illustrating the main components.



Figure 2: Close-up of the 40-pin male IDE connector for motherboard connection.

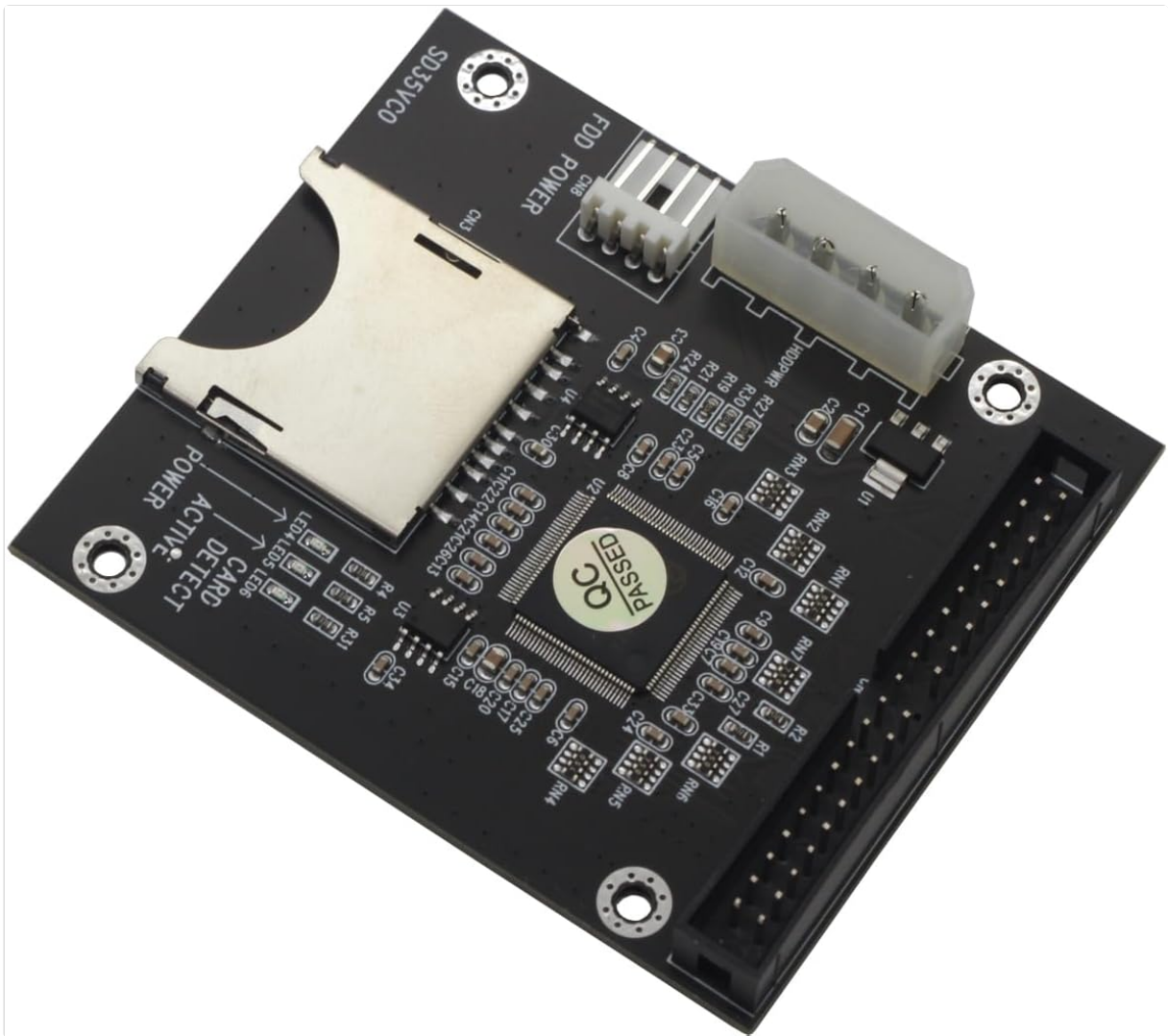


Figure 3: Power input connector on the adapter.

OPERATING INSTRUCTIONS

Once installed, the Mustpoint SD to IDE Adapter Card functions as a standard IDE 3.5" hard disk drive. It provides a solid-state storage solution for various applications:

- **Operating System Installation:** You can install operating systems and applications directly onto the SD card, making it a bootable drive for your system.
- **Broad Compatibility:** The adapter is compatible with a wide range of operating systems, including DOS, Windows 98SE, Me, 2000, XP, Vista, and Linux.
- **Data Storage and Transfer:** Use the SD card as a primary or secondary storage device for data. The adapter also functions as an SD/MMC card reader/writer, allowing for easy data transfer to and from the inserted card.
- **Performance:** Supports PIO, Multi-Word DMA, and Ultra DMA data transfer modes. While offering the benefits of solid-state storage (anti-shock, low power, no acoustic noise), actual write speeds may be limited to approximately 20MB/s, which is generally sufficient for older systems.

MAINTENANCE

The Mustpoint SD to IDE Adapter Card is a low-maintenance device. To ensure its longevity and reliable operation, consider the following:

- **Handle with Care:** Avoid dropping or subjecting the adapter to physical shock.
- **Keep Connectors Clean:** Periodically inspect the IDE and power connectors for dust or debris. Use

compressed air or a soft, dry brush to clean them if necessary.

- **Proper SD Card Handling:** Always insert and remove SD cards carefully to avoid damaging the card slot.
- **Storage:** When not in use, store the adapter in a dry, dust-free environment.

TROUBLESHOOTING

If you encounter issues with your Mustpoint SD to IDE Adapter Card, refer to the following common solutions:

- **Adapter Not Detected by System:**
 - Ensure the 40-pin IDE connector is securely attached to both the adapter and the motherboard.
 - Verify that the power connector is firmly seated and receiving power from the system's power supply.
 - Check your system's BIOS settings. Some motherboards require LBA mode to be enabled and DMA transfer mode to be disabled for proper detection.
 - Confirm the adapter is configured as the **master** device on the IDE cable. This adapter does not support operation as a secondary device on the same IDE ribbon. While it can coexist with another secondary device on the same cable (e.g., a CD-ROM), two of these adapters on the same ribbon will not function correctly.
- **SD Card Not Recognized or Data Corruption:**
 - Ensure the SD card is fully inserted into the adapter's slot.
 - Verify the SD card is compatible. While the adapter supports SD, SDHC, and MMC, some specific 'extreme' or high-performance SD card types may not be detected. Try a different, standard SD card if issues persist.
 - Reformat the SD card using a computer if data corruption is suspected.
- **Limited Storage Capacity Detected:**
 - The adapter officially supports SDHC cards up to 32GB. While some users have reported success with larger cards, the maximum usable capacity may be limited to 128GB regardless of the SD card's actual size, especially in older systems.
 - Ensure your operating system and BIOS support the detected capacity.

SPECIFICATIONS

Brand	Mustpoint
Model Number	8541644176
Compatible Devices	PC, Sound Card, Display Card, Memory Card, POS Systems
Connector Type	40-Pin Male IDE, D-type 4-pin Power (or small 4-pin)
Supported Memory Cards	SD Memory Card (Spec 1.1), MMC (Spec 2.0), SDHC Memory Card
Max SDHC Card Support	32GB (up to 128GB reported by users, with potential compatibility variations)
Data Transfer Modes	PIO, Multi-Word DMA, Ultra DMA
Dimensions	80.2mm x 70.2mm (3.16 x 2.76 inches)
Item Weight	0.845 ounces
Color	Black

WARRANTY AND SUPPORT

Warranty information for the Mustpoint SD SDHC MMC to 3.5" 40Pin Male IDE Adapter Card is typically provided at the point of purchase or can be found on the official Mustpoint website. For specific warranty terms, conditions, and duration, please refer to the documentation included with your product or visit the manufacturer's support page.

For technical support, product inquiries, or further assistance, please visit the Mustpoint official website or contact their customer service department through the channels provided on their site.