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SanDisk SDSQXFN-256G-GN4NN

SanDisk 256GB microSD Express Card User Manual

Model: SDSQXFN-256G-GN4NN

Introduction

The SanDisk 256GB microSD Express microSD Card is designed for next-generation devices, offering significantly faster performance compared to traditional microSD cards. It features a PCIe Gen 3-NVMe interface for enhanced speed while maintaining compatibility with current microSD UHS-I and UHS-II devices. This card is ideal for high-demand applications such as 5.3K video recording, rapid data transfer, and expanding storage for compatible gaming consoles like the Nintendo Switch 2.



Image: SanDisk 256GB microSD Express card, showcasing its design and capacity.

Setup

To begin using your SanDisk microSD Express card, follow these steps for installation and initial setup, particularly for compatible devices like the Nintendo Switch 2.

1. Inserting the microSD Card

Locate the microSD card slot on your device. For the Nintendo Switch 2, the slot is typically found on the underside of the console, often beneath a kickstand or cover. Gently insert the SanDisk microSD Express card into the slot until it clicks into place.



Image: A hand inserting the SanDisk microSD Express card into a compatible card reader, demonstrating the physical insertion process.

2. System Update and Formatting

Upon inserting the microSD Express card into a compatible device like the Nintendo Switch 2, the system may prompt you to update its software. This update is necessary to enable full compatibility and functionality with the new microSD Express format. It is crucial to proceed with this update.

Warning: Formatting will erase all existing data on the card. If you are using a previously used card, ensure all important data is backed up before proceeding with the system update and formatting.

Your browser does not support the video tag.

Video: An official SanDisk video demonstrating the insertion of the microSD Express card into a device and the subsequent system update prompt, highlighting the compatibility with Nintendo Switch 2 and the need for system updates for proper functionality.

After the update and formatting are complete, the system will restart. You can then verify the card's recognition and available free space within your device's settings, typically under 'Data Management'.



Image: The SanDisk microSD Express card shown alongside a Nintendo Switch 2 console, indicating its compatibility and use with the gaming system.

Operating the SanDisk microSD Express Card

The SanDisk microSD Express card is engineered for high-performance applications, leveraging advanced technology to deliver superior speed and efficiency.

Speed and Performance

This card offers read speeds of up to 880MB/s and write speeds of up to 650MB/s, with a sustained write speed of 210MB/s. This performance is achieved through its PCIe Gen 3-NVMe interface, which provides speeds comparable to portable SSDs. It is up to 4.4 times faster than SanDisk's fastest microSD UHS-I cards, significantly reducing transfer times for large files such as 2-hour HD movies (transferable in less than 3.5 seconds) and 4K UHD video footage.

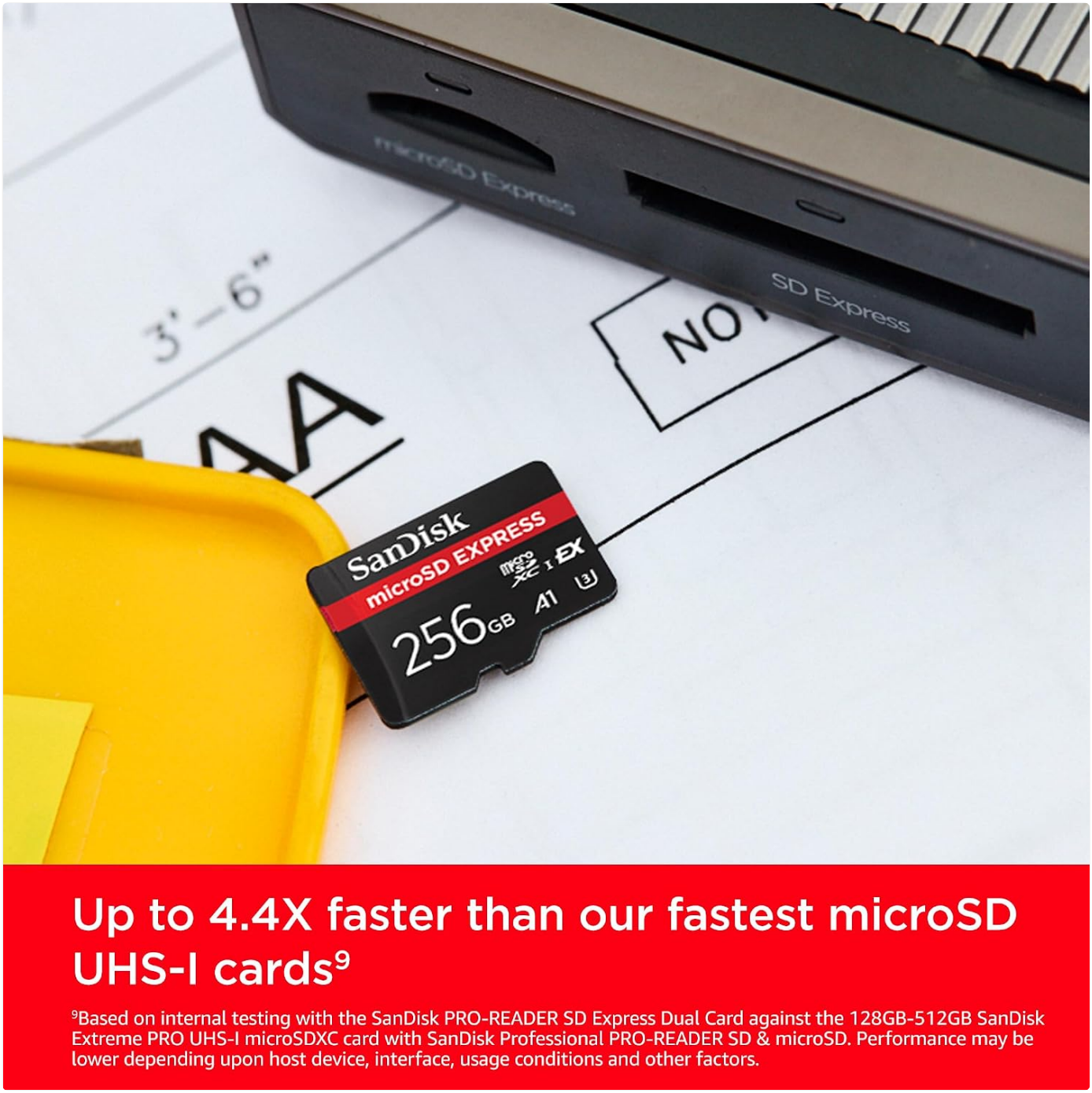


Image: A SanDisk microSD Express card next to a card reader, illustrating its superior speed capabilities compared to previous generation microSD cards.

Compatibility

While featuring a cutting-edge PCIe-NVMe interface, the SanDisk microSD Express card is designed to work seamlessly with current microSD UHS-I and UHS-II devices, operating at UHS-I speeds. This ensures broad compatibility with a wide range of existing cameras, drones, smartphones, and other devices that utilize microSD cards.



Image: A hand holding the SanDisk microSD Express card, positioned near a drone, emphasizing its use in devices requiring high-speed data transfer for media capture.

Video Capture Capabilities

The card supports high-resolution video capture, including 5.3K and 4K video, as well as slow-motion Full HD footage. This makes it an excellent choice for professional content creators and enthusiasts who require reliable storage for demanding video workflows.

SanDisk ThermAdapt Technology

Equipped with SanDisk ThermAdapt technology, the card helps prevent devices from overheating. This feature, combined with a specially designed enclosure and an adaptive thermal controller, ensures consistent performance even during intensive operations, protecting both the card and your device.

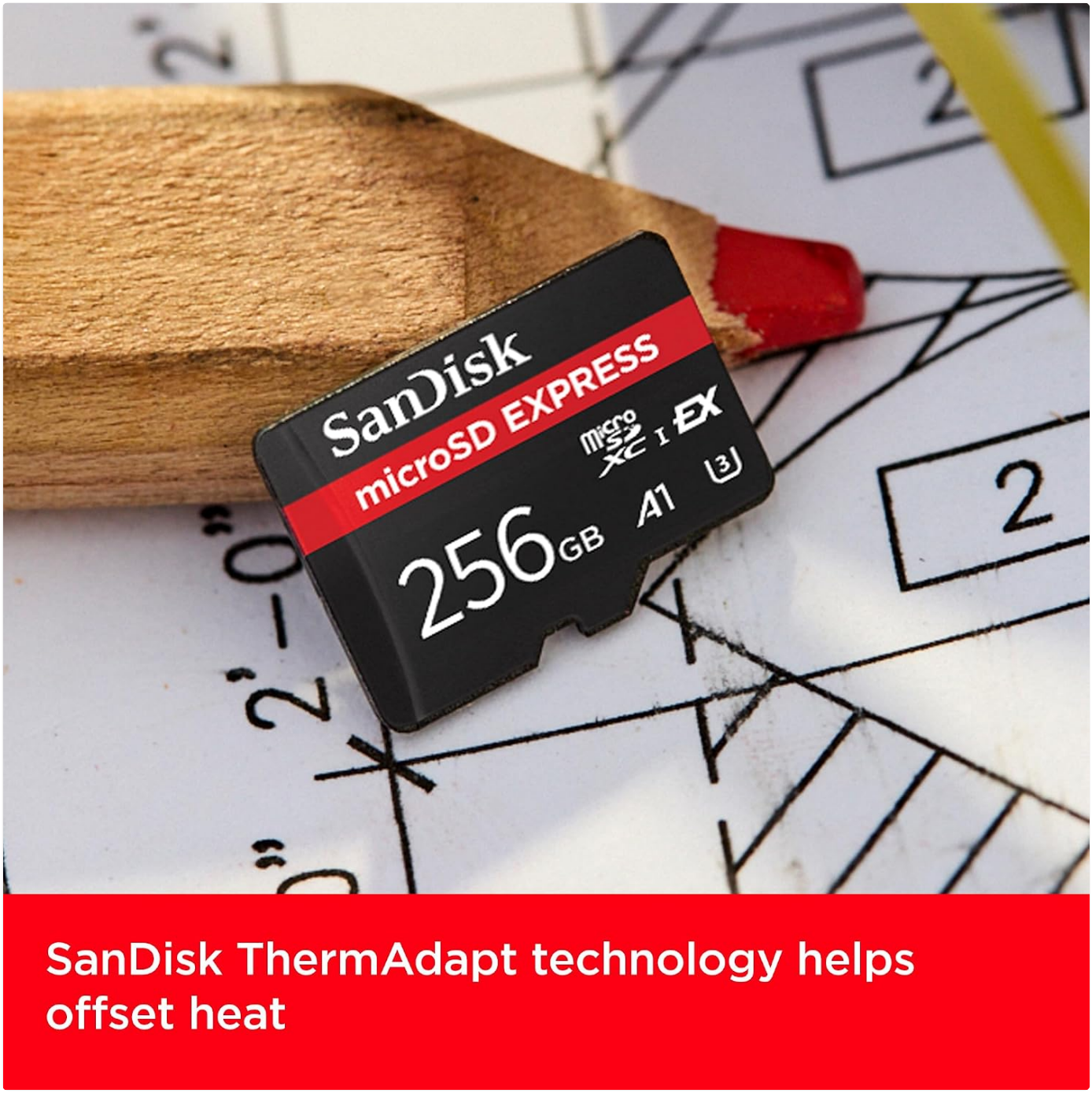


Image: The SanDisk microSD Express card resting on a blueprint next to a pencil, symbolizing its advanced engineering and thermal management capabilities.

Maintenance and Durability

The SanDisk microSD Express card is built to withstand various environmental challenges, ensuring your data remains safe and accessible.

Robust Design

This card is designed to be highly durable, featuring resistance against:

- **Waterproof:** Protects against accidental spills and submersion.
- **Temperature-proof:** Operates reliably in extreme temperatures.
- **Humidity-proof:** Resists damage from high humidity environments.
- **Drop-proof:** Withstands impacts from accidental drops.

- **Shock-proof:** Designed to endure sudden shocks and vibrations.
- **Magnetic-proof:** Shields data from magnetic interference.
- **X-ray proof:** Safe for use at airport security scanners.
- **Wear-out proof:** Built for long-term reliability and frequent use.



Image: The SanDisk microSD Express card surrounded by icons representing its various durability features, including water, temperature, shock, and X-ray resistance.

Data Recovery Service

In the event of accidental file deletion, the SanDisk microSD Express card includes a two-year RescuePRO Deluxe recovery service. This service can help retrieve lost data, providing an additional layer of security for your important files. Activation details for this service are typically provided with the product or can be found on the SanDisk official website.

Troubleshooting

This section addresses common issues and provides solutions for your SanDisk microSD Express card.

Card Not Recognized / System Update Required

If your device prompts for a system update after inserting the microSD Express card, it is essential to proceed with the update. This ensures the device's operating system is compatible with the advanced features of the microSD Express format. Failure to update may result in the card not being recognized or functioning incorrectly.

Data Loss During Formatting

As mentioned in the Setup section, inserting a new microSD Express card into certain devices (like the Nintendo Switch 2) may trigger an automatic formatting process. This process will erase all data on the card. To prevent data loss, always back up any existing files on the card to another storage medium (e.g., a computer, cloud storage) before inserting it into a new device or performing any system updates that might initiate formatting.
If data loss occurs despite precautions, utilize the included two-year RescuePRO Deluxe recovery service to attempt retrieval of your files.

Specifications

Feature	Detail
Brand	SanDisk
Model Name	SDSQXFN-256G-GN4NN
Flash Memory Type	Micro SDHC
Memory Storage Capacity	256 GB
Compatible Devices	Gaming Console, Personal Computer, Camera
Read Speed	880 Megabytes Per Second
Write Speed	100.0 (Note: Product description states up to 650MB/s write, 210MB/s sustained write. This specification might be a minimum or a different metric.)
Special Feature	X Ray Proof, Water Proof, Magnetic Proof, Wearout Proof, Drop Proof
Color	Black
Item Weight	0.26 Grams (0.009 ounces)
Product Dimensions	0.59 x 0.43 x 0.04 inches
Hardware Interface	microSDHC
Secure Digital Association Speed Class	Class 10
Manufacturer	SanDisk Technologies, Inc.

Feature	Detail
UPC	619659202064
Date First Available	August 30, 2024

Warranty and Support

SanDisk provides comprehensive support for its products, including the microSD Express card.

Warranty Information

The SanDisk 256GB microSD Express card comes with a **Lifetime Warranty**. For detailed terms and conditions of the warranty, please refer to the official SanDisk website or the product packaging.

Protection Plans

Optional protection plans are available to further safeguard your investment:

- **2-year Photo and Data Recovery Plan:** Provides extended coverage for data recovery services.
- **3-year Photo and Data Recovery Plan:** Offers an even longer period of data recovery support.

These plans are separate from the standard product warranty and offer specialized data recovery assistance. For more information on purchasing and activating these plans, please visit the SanDisk website or contact their customer support.

Customer Support

For technical assistance, product registration, or any other inquiries, please visit the official SanDisk support website. You can often find FAQs, troubleshooting guides, and contact information for direct support there.

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