

fanxiang S630-1TB

fanxiang S630 1TB M.2 2230 NVMe SSD User Manual

Model: S630-1TB

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your fanxiang S630 1TB M.2 2230 NVMe Solid State Drive. The S630 is designed to offer high-speed storage performance for compatible devices such as the Steam Deck, ROG Ally, Microsoft Surface Pro, laptops, and mini PCs. Please read this manual thoroughly before proceeding with installation or use.

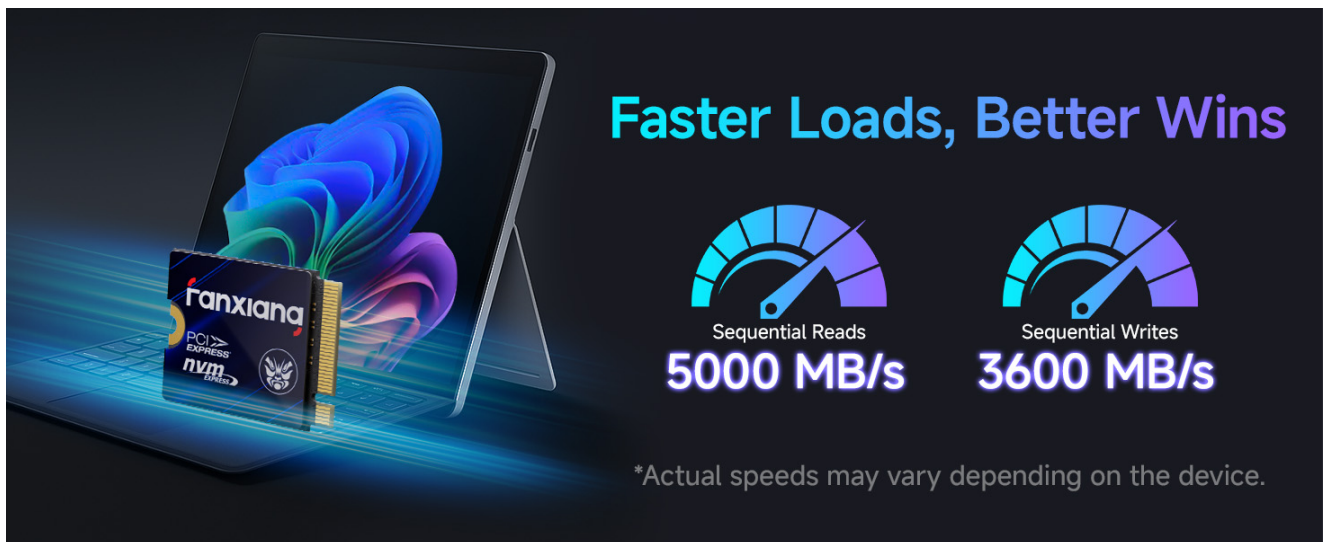


Image: The fanxiang S630 NVMe SSD demonstrating its high-speed performance with sequential read speeds up to 5000 MB/s and sequential write speeds up to 3600 MB/s. Actual speeds may vary depending on the device.

2. SAFETY INFORMATION

Please observe the following safety precautions to prevent damage to the SSD and your device, and to ensure personal safety:

- **Electrostatic Discharge (ESD) Protection:** Always handle the SSD by its edges. Wear an anti-static wrist strap or frequently touch a grounded metal object before and during installation to discharge static electricity.

- **Power Off:** Ensure your device is completely powered off and disconnected from the power source before installing or removing the SSD.
- **Compatibility:** Verify that your device supports the M.2 2230 form factor and PCIe NVMe SSDs. Refer to your device's manufacturer specifications.
- **Physical Handling:** Avoid bending, dropping, or applying excessive force to the SSD. Do not touch the gold connector pins.
- **Environment:** Store and operate the SSD within recommended temperature and humidity ranges. Keep it away from liquids and extreme temperatures.

3. PACKAGE CONTENTS

The fanxiang S630 1TB M.2 2230 NVMe SSD package typically includes:

- 1x fanxiang S630 1TB M.2 2230 NVMe SSD

Note: Additional tools for installation (e.g., screwdriver, anti-static wrist strap) are not included and must be acquired separately.

4. SETUP AND INSTALLATION

Installing the fanxiang S630 SSD requires careful handling. The general steps are outlined below. Always refer to your device's specific service manual for detailed instructions, as procedures may vary.

4.1 Compatibility Check

The S630 SSD is compatible with various devices. Please verify your device's specifications before installation.

- **Steam Deck / ROG Ally:** The S630 is designed to fit these handheld gaming consoles. Note that Steam Deck's PCIe 3.0 interface will limit speeds to approximately 3500MB/s, which is normal and ensures smooth gameplay.
- **Microsoft Surface Pro:** Only Surface Pro 9 (Intel version) supports PCIe 4.0. Surface Pro 7+, Surface Pro 8, Surface Pro 9 (5G/ARM version), and Surface Pro X are limited to PCIe 3.0, with maximum read speeds up to approximately 3500MB/s.
- **Laptops / Mini PCs:** Ensure your device has an M.2 2230 slot that supports NVMe PCIe Gen 4x4.

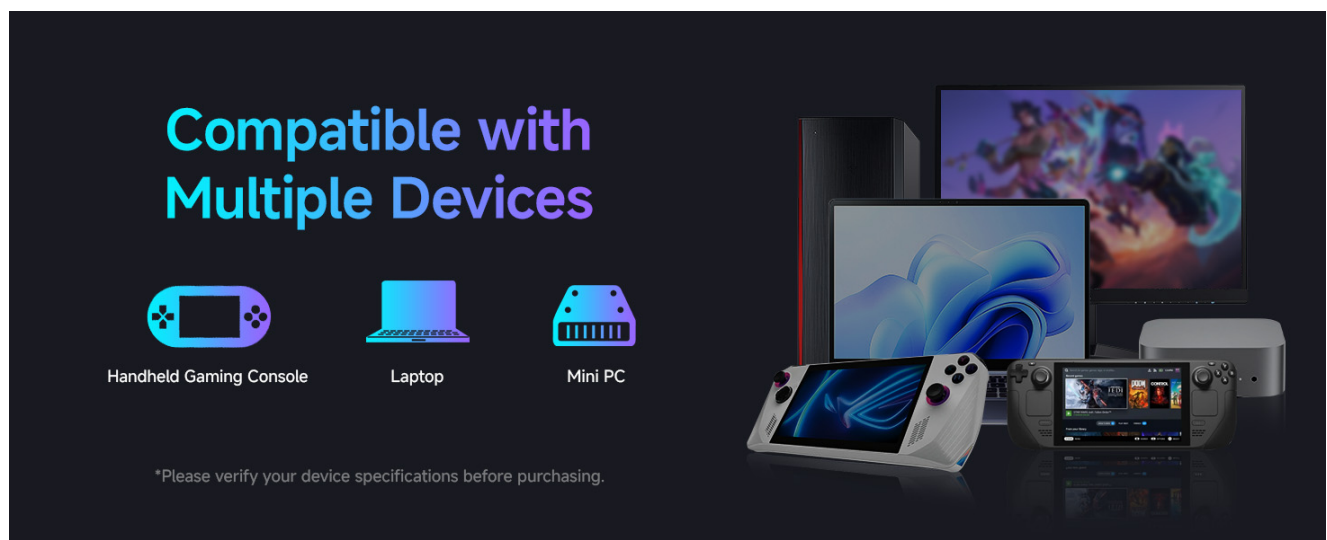


Image: The fanxiang S630 SSD is compatible with multiple devices, including handheld gaming consoles, laptops, and mini PCs. Please verify your device specifications before purchasing.

4.2 Installation Steps (General)

1. **Prepare Your Workspace:** Work on a clean, well-lit surface. Ensure you have the necessary tools (e.g., small Phillips or Torx screwdriver, anti-static wrist strap).
2. **Power Down:** Completely shut down your device and disconnect it from all power sources.
3. **Access the M.2 Slot:** Carefully open your device's casing to access the M.2 slot. Refer to your device's service manual for exact instructions on how to do this.
4. **Remove Existing SSD (if applicable):** If replacing an existing SSD, unscrew the retaining screw and gently slide the old SSD out of the slot.
5. **Install the S630 SSD:** Align the notch on the S630 SSD with the key in the M.2 slot. Gently insert the SSD into the slot at an angle (usually 30 degrees) until it is fully seated.
6. **Secure the SSD:** Push the SSD down until it is parallel with the motherboard and secure it with the retaining screw.
7. **Reassemble Device:** Carefully close your device's casing.
8. **Power On:** Reconnect power and turn on your device.

5. OPERATING INSTRUCTIONS

After physical installation, the SSD needs to be recognized and prepared by your operating system.

5.1 Initializing and Formatting the SSD

For a new SSD, you will typically need to initialize and format it before it can be used for storage. The process varies slightly depending on your operating system (Windows, Linux, SteamOS, etc.).

- **Windows:** Open Disk Management (right-click Start button > Disk Management). Locate the new SSD, right-click it, and select 'Initialize Disk'. Choose GPT (GUID Partition Table) for modern systems. Then, right-click the unallocated space, select 'New Simple Volume', and follow the wizard to format it (NTFS recommended).
- **Steam Deck / ROG Ally:** These devices typically have built-in utilities or prompts to format new storage devices upon boot. Follow the on-screen instructions.
- **Other OS:** Consult your operating system's documentation for instructions on disk initialization and formatting.

5.2 Performance

The fanxiang S630 1TB NVMe SSD offers sequential read speeds up to 5000 MB/s and sequential write speeds up to 3600 MB/s on PCIe Gen 4x4 compatible systems. Performance may vary based on system hardware, software, usage, and other factors. When used with PCIe 3.0 interfaces, speeds will be limited to approximately 3500 MB/s.

6. MAINTENANCE

The fanxiang S630 SSD is designed for durability and reliability with minimal maintenance required. However, following these guidelines can help ensure optimal performance and longevity.

6.1 Thermal Management

The S630 SSD features a graphene heat dissipation sticker on its surface, acting as an ultra-thin heat sink. This design helps to effectively reduce heat generated during use, improving overall performance and stability.

Stay Cool, Run Faster

The S630 SSD uses a graphene thermal solution to enhance heat dissipation, lower temperatures and optimize SSD reliability for gaming and intensive tasks.

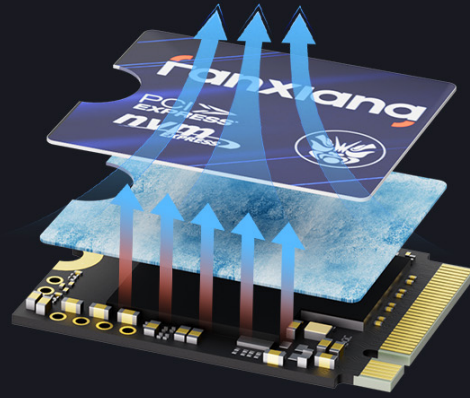


Image: The S630 SSD uses a graphene thermal solution to enhance heat dissipation, lower temperatures, and optimize SSD reliability for gaming and intensive tasks.

Ensure your device has adequate airflow to further assist in heat dissipation, especially during prolonged heavy workloads.

6.2 Firmware Updates

Periodically check the fanxiang official website for any available firmware updates for your S630 SSD. Firmware updates can improve performance, stability, and compatibility. Follow the instructions provided with the firmware update carefully.

6.3 Data Backup

Regularly back up important data stored on your SSD to another storage device. While SSDs are highly reliable, no storage device is immune to failure.

7. TROUBLESHOOTING

If you encounter issues with your fanxiang S630 SSD, try the following troubleshooting steps:

- **SSD Not Detected:**

- Ensure the SSD is correctly seated in the M.2 slot.
- Check your device's BIOS/UEFI settings to confirm the M.2 slot is enabled and configured correctly (e.g., NVMe mode).
- Try the SSD in another compatible device or M.2 slot if available to rule out a device-specific issue.
- Verify that the SSD has been initialized and formatted by the operating system (refer to Section 5.1).

- **Slow Performance:**

- Confirm your device's M.2 slot supports PCIe Gen 4x4. If it's PCIe Gen 3.0, speeds will be limited to approximately 3500 MB/s, which is expected.
- Ensure your operating system and drivers are up to date.
- Check for excessive background processes or high CPU/RAM usage that might impact SSD performance.
- Monitor SSD temperature. High temperatures can lead to thermal throttling, reducing performance. Ensure proper cooling.

- **System Instability/Crashes:**

- Ensure the SSD is securely installed.
- Check for any conflicting drivers or software.
- Run a diagnostic tool (if available from fanxiang or your OS) to check the SSD's health.

If these steps do not resolve the issue, please contact fanxiang customer support (refer to Section 9).

8. SPECIFICATIONS

Feature	Specification
Model Number	S630-1TB
Digital Storage Capacity	1 TB
Hard Disk Interface	Solid State
Connectivity Technology	M.2 2230
Brand	fanxiang
Special Feature	Backward Compatible, Shock Resistant
Hard Disk Form Factor	0.87 Inches (M.2 2230)
Compatible Devices	Laptop, Microsoft Surface Pro, Mini PCs, ROG Ally, Steam Deck
Installation Type	Internal Hard Drive
Read Speed	Up to 5000 MB/s
Write Speed	Up to 3600 MB/s
Hardware Connectivity	PCIe x 4
Enclosure Material	3D NAND Flash
Item Weight	5 Grams

9. WARRANTY AND SUPPORT

The fanxiang S630 1TB M.2 2230 NVMe SSD comes with a comprehensive warranty and dedicated customer support.

9.1 Warranty Information

This product is backed by a **5-year quality service warranty** or **320 TBW (Terabytes Written)**, whichever comes first. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.



Image: fanxiang offers reliable after-sales support for the S630 SSD, including TBW rating, 5-year reliability, and dedicated customer support.

9.2 Customer Support

For technical assistance, warranty claims, or any other inquiries, please contact fanxiang customer support through the official fanxiang website or the retailer where you purchased the product. Please have your product model number (S630-1TB) and proof of purchase ready when contacting support.