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fanxiang S690Q

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Model: S690Q

1. INTRODUCTION

This manual provides essential information for the installation, operation, maintenance, and troubleshooting of your fanxiang 2TB NVMe SSD PCIe Gen4 M.2 S690Q. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

Auto-adaptive Design

Smart Temperature Control



Image: The fanxiang 2TB NVMe SSD S690Q, a compact M.2 2280 form factor solid state drive.

Product Features:

- **Efficient Performance:** Utilizes PCIe Gen4 x4 technology and NVMe 1.4 protocol, offering read speeds up to 5000MB/s. Compatible with PS5, desktops, and laptops.
- **Ample Storage Expansion:** Provides 2TB of storage capacity for games and applications.
- **Fast Heat Dissipation:** Features a graphite heat dissipation sticker to maintain low operating temperatures during intensive use.
- **Wide Compatibility:** Suitable for various platforms including PlayStation 5, desktop computers, and laptops.

2. SETUP AND INSTALLATION

Before installation, ensure your device (PC, laptop, or PS5) supports M.2 2280 NVMe PCIe Gen4 SSDs. Refer to your device's manual for specific M.2 slot requirements and installation procedures.

General Installation Steps (for compatible devices):

1. **Power Off:** Completely power off your computer or gaming console and disconnect it from the power source.

2. **Access M.2 Slot:** Open your device's casing to access the motherboard and locate the M.2 slot. This may require removing other components.
3. **Insert SSD:** Gently insert the fanxiang S690Q NVMe SSD into the M.2 slot at a slight angle. The gold contacts should align with the slot.
4. **Secure SSD:** Once fully inserted, push the SSD down until it is parallel with the motherboard. Secure it with the provided screw or retention mechanism.
5. **Reassemble:** Close your device's casing and reconnect all power cables.
6. **Initialization (for new installations):** After booting, you may need to initialize and format the SSD through your operating system's disk management utility before it can be used. For PS5, follow the on-screen instructions for formatting the new storage.

Video: This video demonstrates the installation of an NVMe SSD into a USB-C hub, illustrating the physical insertion and securing process which is similar for internal M.2 slots.

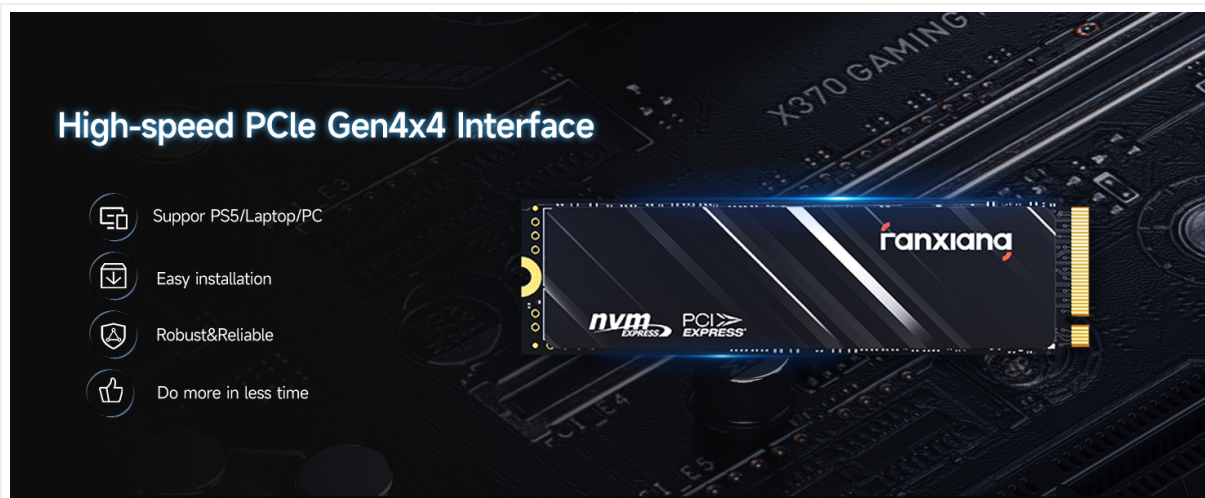


Image: The fanxiang S690Q NVMe SSD highlighting its high-speed PCIe Gen4x4 interface and ease of installation.

3. OPERATING THE SSD

Once installed and formatted, your fanxiang S690Q SSD will function as a high-speed storage device. It is designed to enhance system responsiveness and reduce loading times for applications and games.

Key Operational Benefits:

- **Faster Boot Times:** Operating systems installed on the SSD will boot significantly quicker.
- **Rapid Application Loading:** Programs and games stored on the SSD will launch and load faster.
- **Improved Gaming Experience:** Reduced loading screens and smoother gameplay, especially for titles installed on the SSD.
- **Efficient Data Transfer:** High read/write speeds facilitate quick transfer of large files.



Image: Illustrates the versatile applications of the SSD, including gaming, video editing, and general computing.

4. MAINTENANCE

The fanxiang S690Q SSD is designed for durability and requires minimal maintenance. Adhering to a few best practices can help ensure its long-term performance.

Maintenance Tips:

- **Keep Firmware Updated:** Periodically check the fanxiang official website for firmware updates for your SSD. Firmware updates can improve performance, stability, and compatibility.
- **Ensure Proper Airflow:** Maintain good airflow within your PC or console to assist the SSD's graphite heat dissipation sticker in keeping temperatures low.
- **Avoid Extreme Temperatures:** Operate the SSD within its specified temperature ranges (Working Temp: 0°C-70°C, Storage Temp: -40°C-85°C) to prevent damage and ensure optimal performance.
- **Regular Backups:** While SSDs are reliable, regular data backups are always recommended for critical data.
- **TRIM Command:** Ensure your operating system has TRIM enabled. TRIM helps maintain the performance of the SSD over time by allowing the operating system to inform the SSD which data blocks are no longer in use and can be wiped.

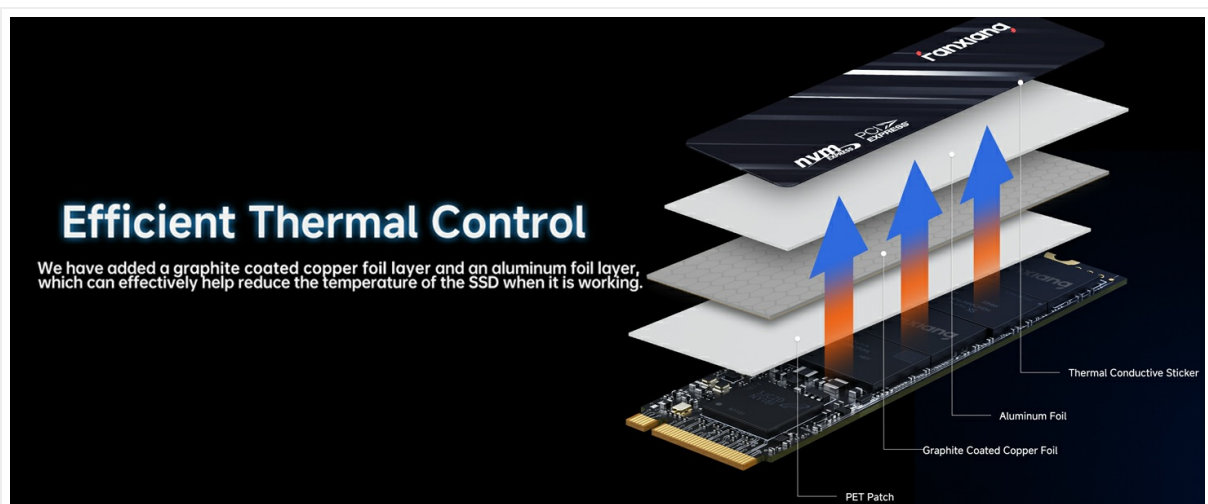


Image: Diagram illustrating the efficient thermal control system of the SSD, including the graphite thermal patch.

5. TROUBLESHOOTING

If you encounter issues with your fanxiang S690Q SSD, refer to the following common troubleshooting steps.

Common Issues and Solutions:

- **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).
 - For new SSDs, ensure it has been initialized and formatted in Disk Management (Windows) or Disk Utility (macOS).
 - Verify compatibility with your motherboard/console.
- **Slow Performance:**
 - Confirm your motherboard/console supports PCIe Gen4 speeds. If it only supports Gen3, the SSD will operate at Gen3 speeds.
 - Ensure your operating system has TRIM enabled.
 - Check for excessive heat. High temperatures can cause performance throttling. Ensure adequate cooling.
 - Verify that the SSD is not nearly full. Performance can degrade when an SSD is close to full capacity.
- **PS5 Performance Warning:**
 - The PS5 recommends a read speed of 5500 MB/s. While this SSD offers up to 5000 MB/s, it may trigger a warning. In most cases, actual gaming performance will not be noticeably affected.
 - Ensure the SSD is installed correctly and the PS5 firmware is up to date.
- **System Instability/Crashes:**
 - Ensure the SSD firmware is up to date.
 - Check for loose connections or other hardware issues in your system.
 - Test the SSD in another compatible system if possible to rule out device-specific issues.

If these steps do not resolve your issue, please contact fanxiang customer support.

6. SPECIFICATIONS



Image: Detailed technical specifications of the fanxiang S690Q NVMe SSD.

Feature	Detail
Brand	fanxiang
Model Name	S690Q
Digital Storage Capacity	2 TB
Hard Disk Interface	PCIe x 4
Connectivity Technology	PCIe Gen4x4 NVMe 1.4
Form Factor	M.2 2280 Centimeters
Read Speed	Up to 5000 Megabytes Per Second
Write Speed (Media Speed)	Up to 3800 Megabytes Per Second
Compatible Devices	Desktop, Gaming Console (PS5), Laptop
Special Feature	Hardware Encryption, Graphite Heat Dissipation Sticker
Working Temperature	0°C - 70°C
Storage Temperature	-40°C - 85°C
Item Weight	7 Grams
Dimensions (L x W x Th)	3.94"L x 0.28"W x 2.76"Th

7. WARRANTY AND SUPPORT

Your fanxiang S690Q NVMe SSD comes with comprehensive warranty and support services.

- **Warranty:** The product includes a 5-year manufacturer's warranty.
- **Technical Support:** Lifetime technical support is provided.
- **Contact:** For any questions or issues, please contact fanxiang customer service.



Image: Symbolizing the 5-year service and support provided by fanxiang.