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## Acer GM7000

# Acer Predator GM7000 2TB M.2 NVMe PCIe Gen4 SSD Instruction Manual

Model: GM7000 (2TB) | Part Number: BL.9BWWR.106

## 1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your Acer Predator GM7000 2TB M.2 NVMe PCIe Gen4 Solid State Drive. The GM7000 SSD is designed for high-performance computing, offering exceptional speed and reliability for various applications, including gaming, content creation, and demanding PC tasks. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your device.

## 2. Product Overview

The Acer Predator GM7000 is a cutting-edge M.2 NVMe SSD leveraging the PCIe Gen4x4 interface. It features 3D NAND TLC technology and a DRAM cache, delivering sequential read speeds up to 7400 MB/s and write speeds up to 6700 MB/s. Its design incorporates efficient heat dissipation mechanisms and an integrated Power Management Unit (PMU) for optimized energy consumption.




Figure 1: Acer Predator GM7000 2TB M.2 NVMe SSD. This image displays the physical appearance of the SSD module.

## 3. Setup and Installation

The Predator GM7000 SSD is compatible with desktops, laptops, and PlayStation 5 consoles that support the M.2 2280 form factor and PCIe Gen4 NVMe interface. Always ensure your system's motherboard or console supports these specifications before installation.

### 3.1 General Installation Steps (PC/Laptop)

1. **Preparation:** Power off your computer and disconnect all cables. For laptops, remove the battery if possible. Ground yourself to prevent electrostatic discharge.
2. **Locate M.2 Slot:** Open your computer case or laptop chassis and locate an available M.2 slot on the motherboard. Refer to your system's manual for exact location.
3. **Insert SSD:** Gently insert the Predator GM7000 SSD into the M.2 slot at a 30-degree angle. Push it in until it is fully seated.
4. **Secure SSD:** Push the SSD down towards the motherboard and secure it with the provided screw (if applicable, or use the screw from your motherboard/laptop).

5. **Reassemble:** Close your computer case or laptop chassis and reconnect all cables/battery.
6. **Initialization:** Power on your computer. The new SSD may need to be initialized and formatted through Disk Management (Windows) or Disk Utility (macOS) before use.

### 3.2 PlayStation 5 Installation

The Predator GM7000 is compatible with PlayStation 5. Ensure your PS5 system software is updated to the latest version. For detailed installation instructions, refer to the official PlayStation 5 support documentation or the video below.

Video 1: Predator GM7000 Gen4 M.2 SSD - Installation in a Laptop. This video demonstrates the process of installing the SSD into a laptop, which can be generalized for PC installations.

Video 2: Acer Predator GM7000 4TB M.2 SSD - Unboxing & Installation. This video provides an unboxing and installation guide for the GM7000 SSD, applicable to the 2TB model as well.

## 4. Operating Features

### 4.1 High-Speed Performance

The GM7000 utilizes the PCIe Gen4 standard, offering sequential read speeds up to 7400 MB/s and write speeds up to 6700 MB/s. This ensures rapid boot times, quick application loading, and seamless file transfers.




Figure 2: Blazing Speeds. This image highlights the high sequential read and write speeds of the Predator GM7000 SSD.

## 4.2 Efficient Heat Dissipation

A customized heat spreader with a graphene-laced foam pad is integrated to enhance heat dissipation. This design helps maintain lower operating temperatures during intensive use, contributing to stable performance and extended drive lifespan.




Figure 3: Graphene Heat Dissipation. This image illustrates the graphene-laced foam pad for improved thermal management.

### 4.3 DRAM Cache and Energy Efficiency

The GM7000 features an independent DRAM cache for improved random read/write performance. Its advanced controller includes an integrated Power Management Unit (PMU) to optimize energy efficiency, reducing power consumption and contributing to overall system health.

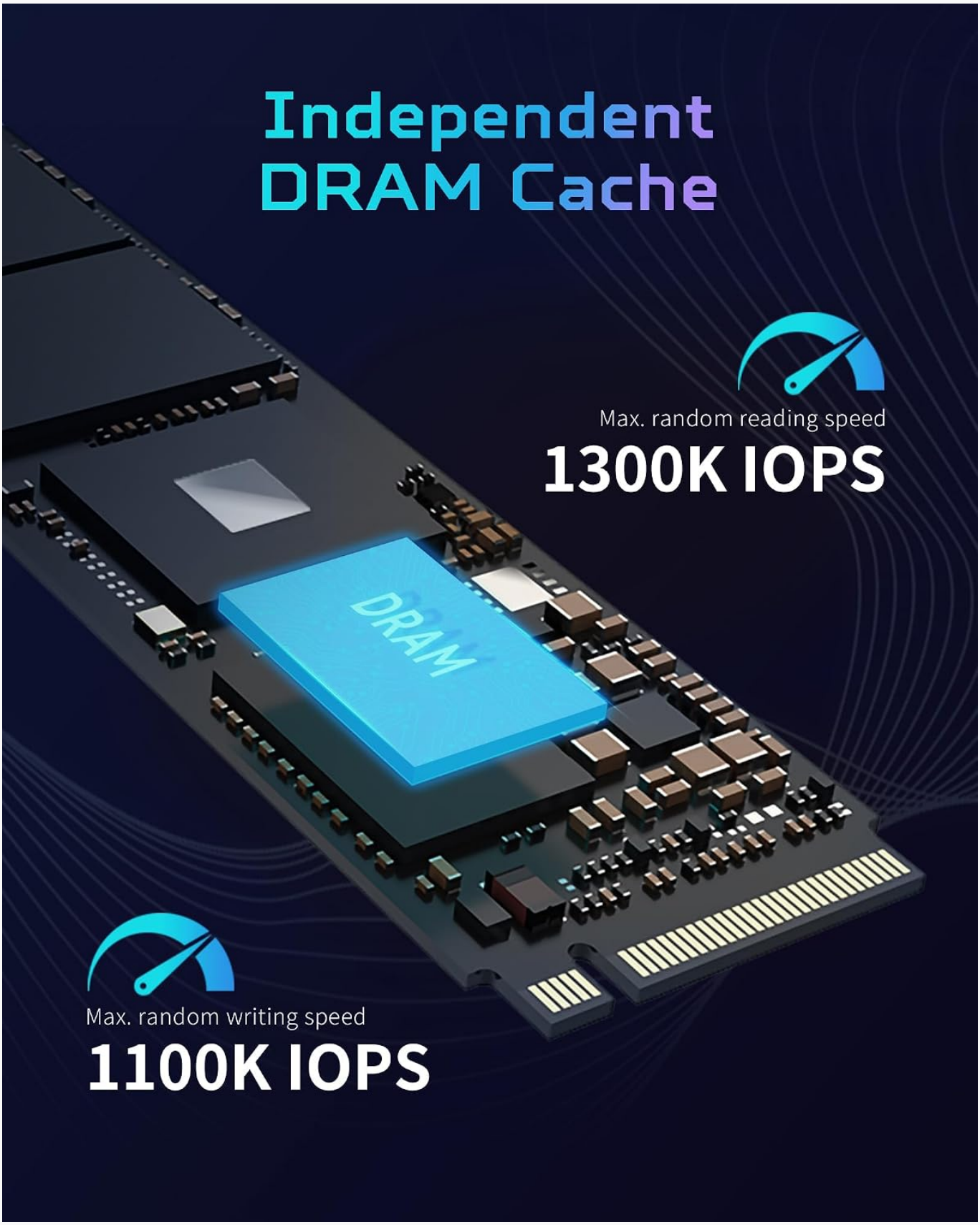



Figure 4: Independent DRAM Cache. This image highlights the DRAM cache for enhanced performance.

### 4.4 Data Integrity and Security

The SSD incorporates features like 4K LDPC ECC (Error-Correcting Code), AES Encryption, and End-to-end Data Protection to ensure the integrity and security of your stored data.




Figure 5: Enhanced Data Integrity and Security. This image illustrates the security features of the SSD.

### 4.5 Biwin Intelligence Software

Biwin Intelligence is a multifunctional management software designed to support Predator branded storage products. It offers features such as performance testing, data migration, drive cloning, and firmware updates for a convenient and secure storage experience. This software can be downloaded from the official Predator Storage website.

## 5. Maintenance

To ensure the optimal performance and longevity of your Predator GM7000 SSD, consider the following maintenance practices:

- **Firmware Updates:** Regularly check for and install firmware updates using the Biwin Intelligence software. Firmware updates can improve performance, stability, and compatibility.
- **TRIM Command:** Ensure the TRIM command is enabled in your operating system. TRIM helps the SSD manage its storage space efficiently, preventing performance degradation over time. Most modern operating systems enable TRIM by default.
- **Avoid Defragmentation:** Do not defragment your SSD. Defragmentation is designed for traditional hard disk drives and can reduce the lifespan of an SSD without providing any performance benefits.
- **Monitor Drive Health:** Use the Biwin Intelligence software to monitor the health and temperature of your SSD. This can help identify potential issues early.
- **Maintain Free Space:** Avoid filling your SSD to its maximum capacity. Keeping some free space (typically 10-15%) allows the SSD's wear-leveling algorithms to function effectively.

## 6. Troubleshooting

If you encounter issues with your Predator GM7000 SSD, try the following steps:

- **SSD Not Detected:**
  - Ensure the SSD is correctly seated in the M.2 slot.
  - Check your system's BIOS/UEFI settings to confirm the M.2 slot is enabled and configured correctly (e.g., NVMe mode).
  - Verify that your motherboard drivers are up to date.
  - For new installations, ensure the drive is initialized and formatted in Disk Management (Windows) or Disk Utility (macOS).
- **Slow Performance:**
  - Confirm your system is running on a PCIe Gen4 compatible motherboard and CPU to achieve maximum speeds.
  - Ensure TRIM is enabled (see Maintenance section).
  - Check for background processes that might be consuming disk resources.
  - Update SSD firmware using Biwin Intelligence software.
  - Ensure adequate airflow to prevent thermal throttling.
- **System Instability/Crashes:**
  - Ensure all system drivers (chipset, storage controller) are up to date.
  - Check for any conflicting software or recent system changes.
  - Run a diagnostic scan using Biwin Intelligence software to check for drive errors.

If issues persist, contact Acer Predator customer support for further assistance.

## 7. Specifications

| Feature | Specification |
| --- | --- |
| Brand | Acer |
| Series | GM7000 |
| Model Number | BL.9BWWR.106 |
| Digital Storage Capacity | 2 TB |
| Hard Disk Interface | Solid State (NVMe 1.4) |

| Feature | Specification |
|---|---|
| Connectivity Technology | PCIe Gen4x4 |
| Form Factor | M.2 2280 |
| Max Sequential Read Speed | Up to 7400 MB/s |
| Max Sequential Write Speed | Up to 6700 MB/s |
| Flash Memory Type | 3D NAND TLC |
| DRAM Cache | Yes |
| Compatible Devices | Desktop, PC, Computer, Laptop, Netbook, PS5 |
| Item Dimensions (LxWxH) | 1.24 x 0.04 x 0.34 inches |
| Item Weight | 0.317 ounces |
| Manufacturer | Biwin |

## 8. What's in the Box

- Predator GM7000 2TB M.2 NVMe SSD
- Instruction Manual
- Single Screw (for mounting)

## 9. Warranty and Support

The Predator GM7000 SSD comes with a **5-year limited warranty**, covering up to 1300 TBW (Terabytes Written). For warranty claims, technical support, or further inquiries, please refer to the official Acer Predator support channels or the Biwin Intelligence software for drive management and diagnostics.

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