

## 980 PRO SSD Simplified English Manual

### 1. Product Overview

#### 1.1 Core Specifications

- Model: 1TB / 2TB / 4TB

- Interface: PCIe Gen 4.0 x4, NVMe 1.3c (backward compatible with PCIe 3.0)

- Form Factor: M.2 2280 (80.15 × 22.15 × 2.38 mm), Weight ≤ 9.0 g

- NAND: 3-bit MLC (TLC)

- Cache: 1GB LPDDR4 (1TB); 2GB LPDDR4 (2TB); 4GB LPDDR4 (4TB)

#### 1.2 Performance Parameters (Sequential Read/Write, QD32)

Capacity

Sequential Read

Sequential Write

Random Read (IOPS)

Random Write (IOPS)

2TB

7,000 MB/s

5,100 MB/s

1,000K

1,000K

1TB

6,900 MB/s

5,000 MB/s

1,000K

1,000K

4TB

7,000 MB/s

6,500 MB/s

1,200K

1,100K

### 1.3 Key Features

- Cooling: Nickel coating + thermal label + Dynamic Thermal Guard (auto temperature control to prevent throttling)
- Security: AES-256 full-disk encryption, TCG/Opal V2.0, IEEE 1667 encryption driver
- System Support: Windows 10/11, macOS, Linux; Heat sink required for PS5
- Power Consumption: Average 5W, Peak 7W; Voltage 3.3V  $\pm$  5%

## 2. Installation Guide

### 2.1 Hardware Installation

1. Shut down the computer, disconnect the power cable, and discharge static electricity.
2. Locate the M.2 NVMe slot on the motherboard (usually marked M.2 M-Key).
3. Remove the slot fixing screw, insert the 980 PRO at a 30° angle (align the gold fingers with the slot), and press gently until it is horizontal.
4. Secure the tail of the SSD with the screw to ensure it is fit and not loose.
5. Reinstall the chassis, connect the power, and start the computer.

### 2.2 System Initialization (Windows)

1. Start the system, press Win+X → Disk Management.
2. Find the unallocated 980 PRO, right-click → Initialize Disk → Select GPT (recommended) → OK.

3. Right-click the unallocated space → New Simple Volume → Follow the wizard to assign a drive letter and format (NTFS).