

Apacer Professional Solutions

PE4430 Gen4 x4



Overview

Apacer PE4430 is a high-performance PCIe Gen4 x4 NVMe M.2 SSD designed for hand-held gaming consoles and tablets, delivering blazing-fast read/write speeds of up to 5500/5200 MB/s. It ensures fast load times, responsive performance, and smooth gameplay, making it ideal for mobile platforms that demand desktop-level speed. Its ultra-slim graphene heat spreader enables efficient thermal control, maintaining stable operation in space-constrained environments.

Validated for compatibility with the Valve Steam Deck™ and ASUS ROG Ally™, PE4430 is built in a compact M.2 2230 form factor, allowing seamless integration into portable devices. With support for high-speed data processing and effective heat management, it offers a robust storage solution tailored for next-generation gaming and performance-driven mobile computing.

Features

- M.2 2230 PCIe Gen4 x4 interface
- Sequential read/write performance up to 5500/5200 MB/s
- 1TB/2TB capacities available
- Supports S.M.A.R.T./TRIM
- Heat spreader design

Specifications

Model Name	PE4430
Capacity	1TB/2TB
Interface	PCIe Gen4 x4
NAND Flash	3D NAND
Sequential Read Performance*	Up to 5500 MB/s
Sequential Write Performance*	Up to 5200 MB/s
IOPS (4K Random Write)	Up to 880K
MTBF (Hours)	>2,000,000
Standard Operating Temperature (°C)	0°C ~ 70°C
Storage Operating Temperature (°C)	-40°C ~ 85°C
Dimension	(L)30.00 x (W)22.00 x (H)2.43 mm
Warranty	3 years or TBW**, whichever occurs first

*The performance may vary due to host hardware, software , usage and storage capacity.

**Terabytes Written(TBW): represents the total number of bytes that can be written before the SSD becomes unwritable. The larger the TBW value, the more resistant the SSD is to writing and the better the durability.

**For more information,
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