IRDM PRO

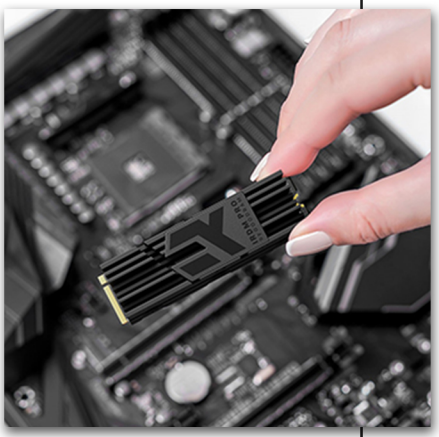


SSD IRDM PRO M.2

Performance without compromise

7000 MB/s / 6850 MB/s	HIGH-SPEED INTERFACE	NVMe 1.4	E18	5
READ/WRITE SPEED	PCIe GEN 4 X4	SUPPORT	PHISON E18 CONTROLLER	5-YEAR WARRANTY + FREE TECHNICAL SUPPORT

Ultra-fast PCIe 4 x4 SSD by IRDM



The latest IRDM PRO M.2 SSD storage device is equipped with an extremely fast PCIe 4 x4 NVMe interface. Maximum read and write speeds of 7000 MB/s and 6850 MB/s, respectively, provide excellent performance and stability.

7000 MB/s
READ SPEED

6850 MB/s
WRITE SPEED

Equipping a desktop or laptop computer with an IRDM PRO drive guarantees smooth and comfortable operation under the most demanding conditions, such as working with 3D modeling and animation or rendering images. Another of the opportunities IRDM SSD offers is to increase storage space on ninth-generation consoles that support SSDs with M.2 2280 form factor.

Wide selection of memories

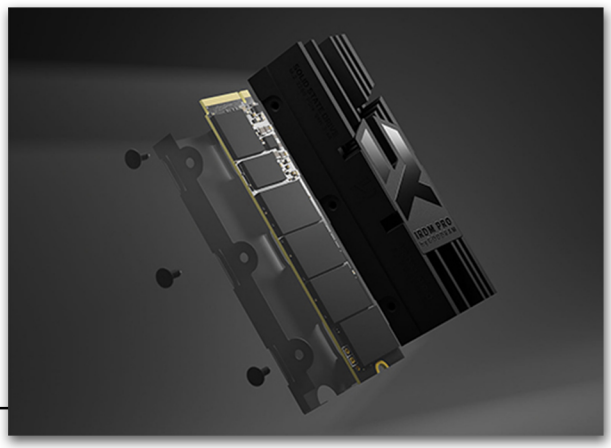
AVAILABLE CAPACITIES
1, 2, 4 TB

The latest SSD from IRDM is available in 1TB, 2TB and 4TB capacities. With three options to choose from, users can match the drive to their needs and applications, regardless of what device they use.

Unique Heatsink

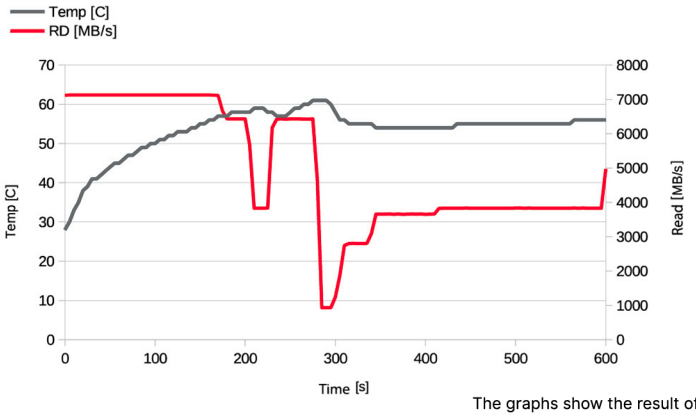
Engineers and developers working on the IRDM PRO SSD did not only focus on technical performance, but also on the design. The heatsink that combines matte and glossy elements looks massive and further emphasizes the high quality of the whole device. By keeping the black color scheme, it refers to other products of the IRDM line, and the whole design retains a modern retro style, taking inspiration from the electronics of the 80's.

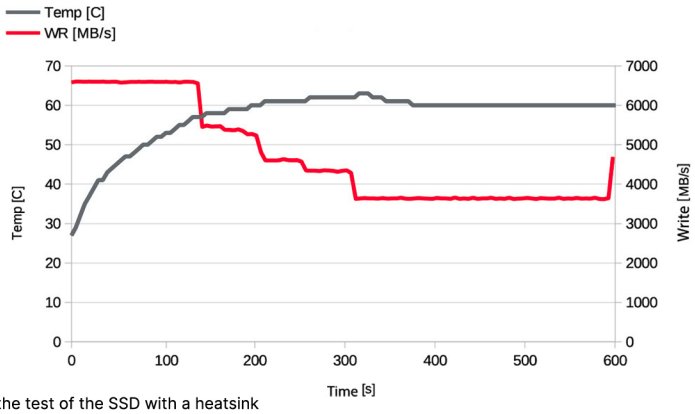
UNIQUE DESIGN
MODERN RETRO STYLE



High performance

The heatsink is made of aluminum, which conducts heat perfectly, and the additional holes and cut-outs that are also well matched with the brand logo, ensure a free and even airflow. Once installed, the heatsink guarantees a high performance of the drive even under extreme operating conditions, as proven in laboratory tests - SSD's uptime at the highest speed increases by up to 6x when compared with using it without any type of heat dissipation tool. The height of the heatsink has been optimized to be as small as possible, yet as efficient as possible.



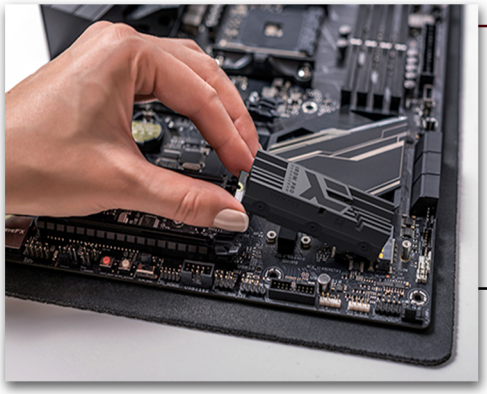


The graphs show the result of the test of the SSD with a heatsink

The best and proven solutions

The use of the latest solution, which is the PCIe NVMe gen 4 x4 interface, provides high performance and very high read and write speeds. The type of FLASH memory used is the already well-known 3D TLC chips. What's more, the presence of a DRAM buffer of up to 2 GB DDR4 definitely increases the read and write speeds. Using the best quality components allowed to create a product that meets the expectations of the most demanding customers who refuse to compromise.

Phison controller



The management of the entire drive is handled by a technologically advanced PS5018-E18 chip, supplied by one of the best and most experienced manufacturers in the market, namely Phison. The eight-channel E18 controller, based on ARM Cortex R5 architecture, is used by the best SSD manufacturers. It supports the latest version of the NVMe protocol, i.e. 1.4, and is characterized by impressive maximum speeds of 7000 MB/s and 700 000 random IOPS.

Full range of technologies

Advanced technologies ensure the drive's operation and data security. The most important of them are:

Lifetime Management	Possibility to check the percentage lifetime used via SMART. It allows you to control the life of the drive and react before a possible failure occurs.
SLC Caching	Dynamically increases drive performance and life, resulting in a satisfying user experience.
ECC	Error Correction Code - an algorithm for detecting and correcting errors that occur during the reading of blocks of data and also protects the data from damage.
Wear leveling	The term indicates static and dynamic algorithms that significantly increase the life of the disk. This is due to the balanced consumption of memory blocks.
Thermal throttling	Prevents overheating of any drive components during read and write operations.
Read Only Mode	In the event that the maximum number of failed memory blocks is reached, the SSD enters a read-only mode.

EXPLANATION NEEDED?
VISIT OUR GLOSSSARY!

Premium packaging

The IRDM PRO M.2 SSD is packed in an elegant box, which indicates that we are looking at a high-end product. Inside the box, you will find the drive itself, the heatsink, and a mounting kit consisting of a special plate, screws and a small screwdriver.

