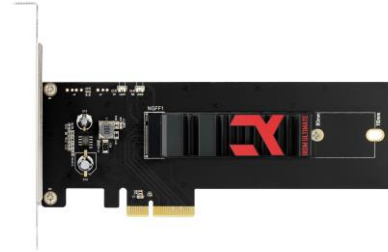




IRDM ULTIMATE

Main features

- Fast PCIe gen 3 x4 NVMe interface
- Read speed up to 2,9 GB/s and write speed up to 2,2 GB/s
- Up to 5 times faster than SATA SSD
- Includes heatsink and HHHL AIC adapter
- 5-year warranty with free technical support



New definition of performance

By reaching up to 2 900 MB/s transfer speed, IRDM Ultimate brings the new definition of SSD for enthusiasts and pro users. Additionally, maximum bandwidth of 270 000 operations per second, translates into unmatched comfort, no matter if you're a gamer, video expert or photographer.

Flexible form factor

IRDM Ultimate SSD is available in M.2 2280 form factor with PCIe interface. It can be connected into new desktop motherboards and laptops with compatible M.2 port which support NVMe standard. The drive comes with heatsink which reduces the operating temperature and improves sustained performance. IRDM Ultimate is available with HHHL AIC adapter, which enables installation in many PCs.

New possibilities with NVMe

NVM Express communication protocol was designed from the ground up to achieve the potential of fast flash based storage media. By utilizing it in IRDM Ultimate SSD, we were able to extract the maximum performance from its memory, controller and PCIe Gen 3 x4 interface. NVMe drastically reduces latency and queuing to bring much better responsiveness vs. AHCI-based SSD.

Guaranteed quality

IRDM Ultimate is based on selected MLC NAND Flash and 8-channel Phison PS5007 controller. Extensive tests and component qualification translate into complete and reliable Solid State Drive. IRDM Ultimate SSD is covered under 5-year warranty and free technical support.



Performance

Parameter	120GB	240GB	480GB
Compressible data read speed (max.) ¹	2 900 MB/s	2 900 MB/s	2 900 MB/s
Compressible data write speed (max.) ¹	2 200 MB/s	2 200 MB/s	2 200 MB/s
Incompressible data read speed (max.) ²	2 300 MB/s	2 750 MB/s	2 500 MB/s
Incompressible data write speed (max.) ²	1 450 MB/s	1 500 MB/s	1 500 MB/s
Random read operations per second (4K files) (max.) ³	133 000 IOPS	235 000 IOPS	235 000 IOPS
Random write operations per second (4K files) (max.) ³	176 000 IOPS	260 000 IOPS	270 000 IOPS

Physical parameters

Capacities ⁴	120, 240, 480 GB
Form Factor	M.2 2280 + AIC HHHL adapter
Interface	PCIe GEN 3 x4 NVMe
NAND Flash	MLC
Controller	Phison PS5007

Reliability and environmental data

Temperature	Operational: 0 ~ 70°C; Storage: -45 ~ 85°C
MTBF	2 million hours
Warranty	5-year with free technical support

Shipping information

Product	Capacity	Packaging	P/N	EAN
IRDM ULTIMATE	120 GB	SSD, thermal heatsink, AIC HHHL adapter	IRU-SSDPR-P34A-120-80A	5908267922552
	240 GB		IRU-SSDPR-P34A-240-80A	5908267922569
	480 GB		IRU-SSDPR-P34A-480-80A	5908267922576

¹ Based on tests performed in ATTO Disk Benchmark 2.47 on SSD in FOB (fresh out of box) state. Actual results may vary depending on your system configuration or SSD wear.

² Based on tests performed in Crystal Disk Mark 3.0.3 on SSD in FOB (fresh-out-of-box) state. Actual results may vary depending on your system configuration or SSD wear.

³ Based on tests performed in Iometer on SSD in FOB (fresh-out-of-box) state. Actual results may vary depending on your system configuration or SSD wear.

⁴ Storage capacity for GOODRAM SSD is provided in decimal values, i.e. 1GB = 1 000 000 000 bytes. Operating systems that use the binary conversion, i.e. 1GB = 1,073,741,824 bytes, may show lower storage capacity than provided in this specification. For more information about capacities visit www.goodram.com/SSD.