

IRDM M.2 SSD

Main features

A proven technology of TLC 3D NAND Flash
PCIe 3x4 interface
8-channel Phison E12 controller
with DRAM buffer
Available capacities: 256GB, 512GB, 1TB, 2TB
5-year warranty limited by the TBW⁴ parameter
and free technical support



Performance

Parameter	256 GB	512 GB	1 TB	2 TB
Incompressible data read speed (max.) ¹	3 000 MB/s	3 200 MB/s	3 200 MB/s	3 200 MB/s
Incompressible data write speed (max.) ¹	1 000 MB/s	2 000 MB/s	3 000 MB/s	3 000 MB/s
Random read operations per second (4K files) (max.) ²	149 000 IOPS	295 000 IOPS	250 000 IOPS	490 000 IOPS
Random write operations per second (4K files) (max.) ²	250 000 IOPS	500 000 IOPS	500 000 IOPS	500 000 IOPS
TBW ⁴	150	300	600	1200

Physical parameters

Capacities ³	256GB, 512GB, 1TB, 2TB
Form Factor	22x80mm
Interface	M.2 PCIe NVMe gen 3 x4 (M-key)
NAND Flash	3D NAND
Controller	PS5012-E12

Reliability and environmental data

MTBF	1 800 000 hours
Temperature	Operational: 0 ~ 70°C; Storage: -45 ~ 85°C
Warranty	5-year warranty limited by the TBW ⁴ parameter and free technical support

Logistics data

Product	Capacity	Packing	P/N	EAN
IRDM M.2 SSD	256 GB	Includes SSD	IR-SSDPR-P34B-256-80	5908267960127
	512 GB		IR-SSDPR-P34B-512-80	5908267960134
	1 TB		IR-SSDPR-P34B-01T-80	5908267960141
	2 TB		IR-SSDPR-P34B-02T-80	5908267960158

¹ Based on tests performed in Crystal Disk Mark 6.0.0 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 Iometer on SSD in FOB (fresh-out-of-box) state. Actual results may vary depending on your system configuration or SSD wear.

³ 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

⁴ After exceeding the TBW or 5 years, the SSD is not covered by warranty.

GOODRAM may make changes to specifications and product descriptions at any time, without notice.

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