

IRDM PRO GEN 5

SOLID STATE DRIVE



- Fastest PCIe 5 x4 interface on the market
- Capacities up to 4 TB
- Most advanced Phison E26 controller with DRAM buffer
- NVMe 2.0 support
- 5-year limited TBW³ warranty with free technical support

PERFORMANCE

	1 TB	2 TB	4 TB
INCOMPRESSIBLE DATA READ SPEED (MAX.) ¹	11 500 MB/s	12 000 MB/s	12 000 MB/s
INCOMPRESSIBLE DATA WRITE SPEED (MAX.) ¹	9 000 MB/s	11 000 MB/s	11 000 MB/s
RANDOM READ OPERATIONS PER SEC. (MAX.) ¹	1 300 000 IOPS	1 400 000 IOPS	1 400 000 IOPS
RANDOM WRITE OPERATIONS PER SEC. (MAX.) ¹	1 400 000 IOPS	1 400 000 IOPS	1 400 000 IOPS
TBW ³	700 TB	1400 TB	3000 TB

TECHNOLOGY

FLASH MANAGEMENT	ERROR CORRECTION CODE (ECC), WEAR LEVELING, BAD BLOCK MANAGEMENT, TRIM, SMART, OVER PROVISION, FIRMWARE UPGRADE, THERMAL THROTTLING
ADVANCED DEVICE SECURITY FEATURES	NVMe FORMAT
SSD LIFETIME MANAGEMENT	MEDIA WEAR INDICATOR, READ ONLY MODE (END OF LIFE)
PERFORMANCE TUNING	THROUGHPUT, PREDICT & FETCH, SLC CACHING

PARAMETERS

CAPACITY ²	1 TB, 2 TB, 4 TB
DIMENSIONS DRIVE/ DRIVEHEATSINK	22 × 80 × 3,6 [mm]
INTERFACE	PCIe NVMe gen.5 x4
FORM FACTOR	M.2 2280 (M-key)
NAND FLASH	3D TLC
CONTROLLER	PS5026-E26
MTBF	1 600 000 h
TEMPERATURE	- OPERATIONAL 0°C ~ 70°C - STORAGE -40°C ~ 85°C



LOGISTICS DATA

PRODUCT	CONTAINS	CAPACITY	P/N	EAN
SSD IRDM PRO GEN5	SSD	1 TB	IRP-SSDPR-P54S-1K0-80	5908267901526
		2 TB	IRP-SSDPR-P54S-2K0-80	5908267901540
		4 TB	IRP-SSDPR-P54S-4K0-80	5908267901557

¹ Based on tests performed in Crystal Disk Mark 8.0.0 on SSD in FOB (fresh-out-of-box) state. Actual results may vary depending on your system configuration or SSD wear.

² Storage capacity for IRDM SSD is provided in decimal values, i.e. 1 GB = 1 000 000 000 bytes. Operating systems that use the binary conversion, i.e. 1 GB = 1 073 741 824 bytes, may show lower storage capacity than provided in this specification. For more information about capacities visit www.goodram.com.

³ After exceeding the TBW or 5 years, the SSD is not covered by warranty.

- IRDM may make changes to specifications and product descriptions at any time, without notice.
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LOGISTICS DATA

PRODUCT	PN	EAN CODE	MOQ	PRODUCT DIMENSIONS	PRODUCT WEIGHT	PACKAGING DIMENSIONS	PRODUCT WEIGHT IN BLISTER	COLLECTIVE PACKAGING DIMENSIONS	COLLECTIVE PACKAGING WEIGHT
IRP-SSDPR-P54S-1K0-80; SSD IRDM PRO GEN5 1000GB PCIe 5X4 M.2 2280 RETAIL	IRP-SSDPR-P54S-1K0-80	5908267901526	10	80 x 22 x 3,6 mm	9,5 g	140 x 113 x 15mm	40 g	168 x 143 x 117mm	484 g
IRP-SSDPR-P54S-2K0-80; SSD IRDM PRO GEN5 2000GB PCIe 5X4 M.2 2280 RETAIL	IRP-SSDPR-P54S-2K0-80	5908267901540	10	80 x 22 x 3,6 mm	9,5 g	140 x 113 x 15mm	40 g	168 x 143 x 117mm	484 g
IRP-SSDPR-P54S-4K0-80; SSD IRDM PRO GEN5 4000GB PCIe 5X4 M.2 2280 RETAIL	IRP-SSDPR-P54S-4K0-80	5908267901557	10	80 x 22 x 3,6 mm	9,5 g	140 x 113 x 15mm	40 g	168 x 143 x 117mm	484 g

¹ Based on tests performed in Crystal Disk Mark 8.0.0 on SSD in FOB (fresh-out-of-box) state. Actual results may vary depending on your system configuration or SSD wear.

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