



IRDM PRO M.2 SSD

- High-speed PCIe gen 4 x4 interface
- NVMe 1.4
- Eight-channel Phison E18 controller with DRAM buffer
- 5-year warranty limited by the TBW parameter⁴ and free technical support

PERFORMANCE	1TB	2TB	4TB
INCOMPRESSIBLE DATA READ SPEED (MAX.) ¹	7 000 MB/s	7 000 MB/s	7 000 MB/s
INCOMPRESSIBLE DATA WRITE SPEED (MAX.) ¹	5 500 MB/s	6 850 MB/s	6 850 MB/s
RANDOM READ OPERATIONS PER SEC. (MAX.) ²	350 000 IOPS	650 000 IOPS	650 000 IOPS
RANDOM WRITE OPERATIONS PER SEC. (MAX.) ²	700 000 IOPS	700 000 IOPS	700 000 IOPS
TBW ⁴	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		

EXPLANATION
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PHYSICAL PARAMETERS

CAPACITIES	1TB, 2TB, 4TB
DIMENSIONS (DRIVE/ DRIVE+HEATSINK)	22x80x0,8 [mm] / 22,8x80x20,5 [mm]
INTERFACE	PCIe NVMe gen 4x4
FORM FACTOR	M.2 2280 (M KEY)
NAND FLASH	3D TLC
CONTROLLER	PS5018-E18
MTBF	2 000 000 h
TEMPERATURE	- OPERATIONAL: 0°C ~ 70°C - STORAGE: -40°C ~ 85°C

LOGISTICS DATA

PRODUCT	CAPACITY	CONTAINS	P/N	EAN
SSD IRDM PRO M.2	1 TB	SSD, HEATSINK, MOUNTING KIT	IRP-SSDPR-P44A-1K0-80	5908267961407
	2 TB		IRP-SSDPR-P44A-2K0-80	5908267961414
	4 TB		IRP-SSDPR-P44A-4K0-80	5908267961421

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, ie. 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.

• Product Sheet | IRDM PRO M.2 | V1 | © 2022 Wilk Elektronik S.A. - GOODRAM