



IRDM M.2

SOLID STATE DRIVE

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

PERFORMANCE

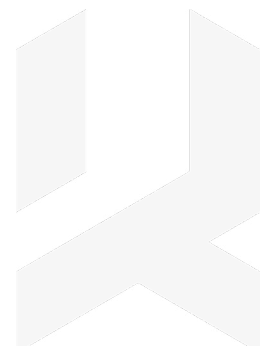
	1 TB	2 TB	4 TB
INCOMPRESSIBLE DATA READ SPEED (MAX.) ¹	7 000 MB/s	7 000 MB/s	7 000 MB/s
INCOMPRESSIBLE DATA WRITE SPEED (MAX.) ¹	5 500 MB/s	6 850 MB/s	6 850 MB/s
RANDOM READ OPERATIONS PER SEC. (MAX.) ²	350 000	650 000	650 000
RANDOM WRITE OPERATIONS PER SEC. (MAX.) ²	700 000	700 000	700 000
TBW ⁴	700TB	1400TB	3000TB

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	1 TB, 2 TB, 4 TB
DIMENSIONS (DRIVE/DRIVE+HEATSINK)	22 × 80 × 3,8 [mm] / 22,8 × 80 × 20,5 [mm]
INTERFACE	PCIe NVMe gen. 4 x4
FORM FACTOR	M.2 2280 (M key)
NAND FLASH	3D TLC
CONTROLLER	PHISON PS5018E18
MTBF	2 000 000 h
TEMPERATURE	- OPERATIONAL 0°C ~ 70°C - STORAGE -40°C ~ 85°C



LOGISTICS DATA

PRODUCT	CONTAINS	CAPACITY	P/N	EAN
IRDM SSD PRO M.2	SSD, HEATSINK, MOUNTING KIT	1 TB	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, 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.

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

• Product Sheet | IRDM SSD PRO M.2 | V.2.3 | © 2024 Wilk Elektronik S.A. - IRDM