

IRDM M.2

SOLID STATE DRIVE

- High-speed PCIe gen 3 x4 interface
- NVMe 1.3
- Eight-channel Phison E12 controller with DRAM buffer
- 5-year warranty limited by the TBW ⁴ parameter
- + technical support



PERFORMANCE	256GB	512GB	1TB	2TB
SEQUENTIAL READ PERFORMANCE (MAX) ¹	3 000 MB/s	3 200 MB/s	3 200 MB/s	3 200 MB/s
SEQUENTIAL WRITE PERFORMANCE (MAX) ¹	1 000 MB/s	2 000 MB/s	3 000 MB/s	3 000 MB/s
RANDOM READ PERFORMANCE (MAX) ²	149 000	295 000	250 000	490 000
RANDOM READ PERFORMANCE (MAX) ²	250 000	500 000	500 000	500 000
TBW ⁴	150TB	300TB	600TB	1200TB

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

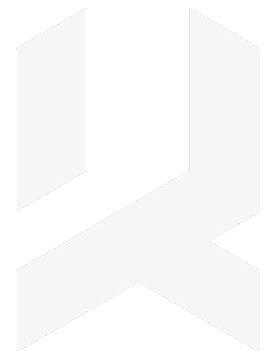
MEDIA WEAR INDICATOR, READ ONLY MODE (END OF LIFE)

PERFORMANCE TUNING

THROUGHPUT, PREDICT & FETCH, SLC CACHING

PARAMETERS

CAPACITY	256GB, 512GB, 1TB, 2TB
DIMENSIONS	22x80x0,8 [mm]
INTERFACE	PCIe NVMe gen 3 x4
FORM FACTOR	M.2 2280 (klucz M)
NAND FLASH	3D NAND
CONTROLLER	PHISON PS5012-E12
MTBF	1 800 000 h
TEMPERATURE	- OPERATIONAL: 0°C ~ 70°C - STORAGE: -45°C ~ 85°C



LOGISTICS DATA

PRODUCT	CAPACITY	P/N	EAN
IRDM SSD M.2	256GB	IR-SSDPR-P34B-256-80	5908267960127
	512GB	IR-SSDPR-P34B-512-80	5908267960134
	1TB	IR-SSDPR-P34B-01T-80	5908267960141
	2TB	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.
 - IRDM may make changes to specifications and product descriptions at any time, without notice.
 - Product Sheet | IRDM SSD M.2 | V.2.0 | © 2022 Wilk Elektronik S.A. - IRDM