



IRDM PRO gen. 2 SSD

Main features

Fastest 3D TLC NAND Flash
Eight channel controller Phison S12
Unmatchable endurance
Capacities from 256 GB up to 2TB
5-year warranty limited by the TBW⁴
parameter and free technical support



Performance

Parameter	256 GB	512 GB	1 TB	2 TB
Baseline read speed (max.) ¹	555MB/s	555MB/s	555MB/s	555MB/s
Baseline write speed (max.) ¹	535MB/s	540MB/s	535MB/s	535MB/s
Incompressible data read (max.) ²	555MB/s	555MB/s	555MB/s	560MB/s
Incompressible data write (max.) ²	540MB/s	535MB/s	540MB/s	540MB/s
Random 4K read (IOPS) ³	96 000	94 000	92 000	97 000
Random 4K write (IOPS) ³	81 000	85 000	86 000	85 000
TBW ⁴	220	438	870	1700

Physical Parameters

Capacities ⁵	256 GB, 512 GB, 1 TB (1024 GB), 2 TB (2048 GB)
Dimensions	2,5", height 7 mm (100,1 x 69,9 x 6,85 mm)
Interface	SATA III 6Gb/s (Backwards compatible with SATA II and I)
NAND Flash	3D TLC NAND Flash
Controller	Phison PS3112-S12

Reliability and Environment

MTBF	1,5 million hours
Data security	End-to-end data protection, Thermal throttling, SmartRefresh™, SmartECC™, Firmware update
Temperatures	Operating: 0 ~ 70°C; Storage: -45 ~ 85°C

Ordering information

Product	Capacity	Packing	P/N	EAN
SSD IRDM PRO	256 GB	Includes SSD, 2,5 mm spacer	IRP-SSDPR-S25C-256	5908267923214
	512 GB		IRP-SSDPR-S25C-512	5908267923221

¹ Based on tests performed in ATTO Disk Benchmark 2.47 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 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.

³ 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.

⁴ The warranty period ends on the date when the SSD has exceeded its TBW.

⁵ Storage capacity for GOODRAM SSD is provided in decimal values, i.e. 1GB = 1 000 000 000 bytes.

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

Product Sheet | SSD IRDM PRO gen.2 | V1.1 | © Wilk Elektronik SA – GOODRAM



gen. 2	1 TB	IRP-SSDPR-S25C-01T	5908267923238
	2 TB	IRP-SSDPR-S25C-02T	5908267923245