

# IRIDIUM PRO

SOLID STATE DRIVE

## WHEN A PRO NEEDS SOMETHING MORE

### SSD TO THE MAXIMUM

Goodram Iridium Pro solid state drive delivers the best-in-class performance and reliability. Equipped with Toshiba A19 NAND flash and feature-packed Phison S10 quad-core controller, Iridium Pro is dedicated for everyone that need to be one-step ahead of the competition.

### THE NEW DEFINITION OF RELIABILITY

With up to 2.0 mln hours of mean-time between failures and industry-leading endurance of up to 500GB/day for 5 years, Iridium Pro sets a new definition of reliability in the SSD world.

### DATA SECURITY AT IT'S FINEST

Phison S10 controller provides full end-to-end data protection and proprietary technologies like SmartRefresh™, SmartFlush™ and GuaranteedFlush™. These features provide data safety and integrity in case of any sudden power drops or read disturbs.



### FEATURES:

- Toshiba A19 NAND flash delivers unmatched performance for desktop users, prosumers, gamers and mobile professionals.
- Industry-leading endurance and reliability with the combination of Multi-Level-Cell NAND Flash and quad-core controller.
- Phison S10 quad-core controller delivers the industry-leading sustained performance and low command latency, perfect for pro applications.
- Polished firmware enables full end-to-end data protection, data coherence and data safety mechanisms
- Slim 7mm housing, bundled with 2,5mm adapter for compatibility with both legacy and the latest slim form factor notebooks





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## PERFORMANCE

	<u>120GB</u>	<u>240GB</u>	<u>480GB</u>	<u>960GB</u>
Baseline read speed <sup>1</sup>	560 MB/s	560 MB/s	560 MB/s	560 MB/s
Baseline write speed <sup>1</sup>	360 MB/s	535 MB/s	535 MB/s	535 MB/s
Incompressible data read <sup>2</sup>	520 MB/s	550 MB/s	550 MB/s	550 MB/s
Incompressible data write <sup>2</sup>	360 MB/s	520 MB/s	530 MB/s	530 MB/s
Random 4K read <sup>3</sup>	86,500 IOPS	99,500 IOPS	99,500 IOPS	100,000 IOPS
Random 4K write <sup>3</sup>	88,900 IOPS	88,000 IOPS	88,000 IOPS	89,800 IOPS

## PHYSICAL

Capacities <sup>4</sup>	120GB, 240GB, 480GB, 960GB
Form factor	2,5", 7mm slim (includes 2,5mm spacer)
Interface	SATA III 6Gbps (backwards compatible with SATA II and SATA I)
NAND flash	Toshiba A19 MLC NAND flash
Controller	Quad-core Phison PS3110-S10
Cache memory	256MB DDRL3 (120GB, 240GB), 512MB DDRL3 (480GB), 1GB DDRL3 (960GB)
Dimensions	100.1 (L) x 69.9 (W) x 6.85mm (H)
Weight	50g (bare SSD)

## RELIABILITY AND SECURITY

Endurance	300TB (120GB), 600TB (240GB), 800TB (480GB), 1000TB (960GB)
MTBF	More than 2.0 million hours
ECC protection	Up to 75 bits per 2KB
Data integrity protection	End-to-end data protection, SmartRefresh™
Power loss protection	SmartFlush™, GuaranteedFlush™
Warranty	5 years with free e-mail support

## ENVIRONMENTAL

Operating temperature	0°C ~ 70°C
Storage temperature	-45°C ~ 85°C
Power consumption	Read: 2,3W, Write: 4,3W (average)
Certifications	CE

## PART ORDERING INFORMATION

<u>PRODUCT NAME</u>	<u>CAPACITY</u>	<u>PACKAGING</u>	<u>PART NUMBER</u>	<u>EAN</u>
GOODRAM Iridium Pro	120GB	Retail	SSDPR-IRIDPRO-120	5908267922217
	240GB		SSDPR-IRIDPRO-240	5908267922033
	480GB		SSDPR-IRIDPRO-480	5908267922040
	960GB		SSDPR-IRIDPRO-960	5908267922057

<sup>1</sup> 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.

<sup>2</sup> BASED ON TESTS PERFORMED IN CRYSTAL DISK MARK 3.0.3 ON SSD IN FOB (FRESH-OUT-OF-BOX) STATE. ACTUAL RESULTS MAY VARY DEPENDING ON YOUR SYSTEM CONFIGURATION OR SSD WEAR.

<sup>3</sup> 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.

<sup>4</sup> 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/SSD](http://WWW.GOODRAM.COM/SSD)

