

UltimaPro X 2.5" SATA III SSD

READ 560MB/s*
WRITE 540MB/s*

Up to 92K IOPS (write)



240
GB

480
GB

960
GB

2
TB

INTRODUCTION

The UltimaPro X is Integral's extreme performance SSD that can meet your most demanding gaming, graphic design, and video workflow needs.

Powered by a quad-core, 8-channel Phison S10 controller, the UltimaPro X SSD delivers super-fast speeds of up to 565MB/s read and 545MB/s write, with read/write IOPS up to 92k.

UltimaPro X 2.5" SSDs are offered in an industry standard low-profile 7mm form factor which enable installation in most desktops, laptops, Ultrabooks, media centre PCs as well as video recording hardware and professional recording cameras.

Choose the UltimaPro X SSD for your extreme performance needs. Specifically engineered to compliment high-specification machines and provide the best gaming and multimedia application performance.

The UltimaPro X SSD has a high read/write IOPS threshold that makes use of every bit of the SSD's superior hardware, giving you the finest experience in professional solid state computing.

KEY BENEFITS

- Providing an industry-leading bandwidth of more than 560MB/sec read and 540MB/s write, the Integral UltimaPro X 2.5" SSD can approach the limits of the SATA III 6Gb/s interface on large transfers.
- Maximum random read/write IOPS up to 92,000
- Gamers will benefit from faster loading times, exceptional performance and a more enjoyable gaming experience
- Power-users, content editors, graphic designers and general multi-taskers will all benefit from an ultra-responsive system and super-fast boot
- Improved video workflow when used in: Digital film recording, live broadcast, video editing, colour correction and visual effects
- A robust ECC algorithm corrects up to 120 bits error in 2K Byte data. Efficient bad block management and reduced write amplification further increases endurance. Drive health is monitored using an SSD-specific set of S.M.A.R.T. attributes. The combination of these techniques provides excellent data protection.

BENEFITS

- Read up to 560MB/s*, Write up to 540MB/s*
- No mechanical parts
 - Highest reliability; less likely to fail than HDD
 - Extreme shock resistance
 - Zero noise
 - No heat generation
- Low power consumption - improved battery life on laptops/netbooks

FEATURES

- 2.5 inch form factor with SATA III 6Gbps interface (backwards compatible with SATA 3Gbps and SATA 1.5Gbps)
- Fully compatible with devices and OS that support the SATA standard
- Non-volatile Flash Memory for outstanding data retention
- Ultra-efficient Block Management and Wear Levelling
- Supports S.M.A.R.T. - Self-Monitoring, Analysis and Reporting Technology
- 3 Year Warranty

*480GB model performance

TECHNICAL

- MLC-NAND Flash Technology
- SATA III 2.5"
- TRIM (OS support required)
- S.M.A.R.T. option
- CE and FCC certified and RoHS compliant

Read up to 560MB/s, Write up to 540MB/s - based on internal testing; performance may vary depending on host device. (480GB model performance)

CAPACITIES & INTERFACE	
Capacities available	240GB, 480GB, 960GB, 2TB
Controller Technology	Phison S10
NAND	MLC
DRAM	256GB = 256MB 512GB = 512MB 960GB = 1GB 2TB = 2GB
Form Factor	2.5 Inch
Interface	SATA III 6Gbps Also Compatible with SATA II 3Gbps Also Compatible with SATA 1.5Gbps
Sequential Speed (up to) ^{1,2}	240GB = READ 565MB/s, WRITE 400MB/s 480GB = READ 560MB/s, WRITE 540MB/s 960GB = READ 560MB/s, WRITE 540MB/s 2TB = READ 550MB/s, WRITE 490MB/s
IOPS ³	240GB = READ 85K, Write 90K 480GB = READ 90K, Write 92K 960GB = READ 90K, Write 90K 2TB = READ 75K, Write 86K
PCMARK 8 Pro Storage Score	240GB = 4924 480GB = 4936 960GB = 4934 2TB = 4947
PCMARK 8 Storage Bandwidth	240GB = 207.26 MBs 480GB = 215.46 MBs 960GB = 215.31 MBs 2TB = 226.30 MBs
TBW ⁴	240GB = 514 480GB = 1028 960GB = 2057 2TB = 4114
DIMENSIONS	
Length mm	100.00
Width mm	69.85
Height mm	7.0
Weight	50g
Packaged Weight	64g
Packaged Dimensions (mm)	L = 133, W = 117, D = 13

POWER CONSUMPTION	
Power Management	5V
Power Consumption (mW) ⁵	240GB - Read 2150, Write 3600, Idle 365 480GB - Read 2235, Write 4370, Idle 375 960GB - Read 2520, Write 4450, Idle 400 2TB - Read 3150, Write 5500, Idle 400
ENVIRONMENTAL	
Operating Temp	0° - +70°C
Storage Temp	-40° - +85°C
Humidity ⁶	RH 90% under 40°C (operational)
Shock (non-operational)	Acceleration Force 1500G @ 0.5ms Half Sin Pulse Duration
Vibration (non-operational)	Frequency/Displacement = 20Hz~1.52mm Frequency/Acceleration = 80Hz~2000Hz/20G Vibration Orientation = X, Y, Z axis/30min for each
FEATURES	
Supports SMART Software	Yes
Supports TRIM	Yes (OS support required)
ECC scheme	S10 corrects up to 120 bits error in 2K Byte data
MTBF	>2 Million Hours
Compliance	CE, FCC, RoHS
WARRANTY	
3 years	

CAPACITY	PART CODE	BARCODE (EAN)
240GB	INSSD240GS625UPX	5055288431102
480GB	INSSD480GS625UPX	5055288431119
960GB	INSSD960GS625UPX	5055288431126
2TB	INSSD2TS625UPX	5055288434790

1. Based on internal testing

2. Sequential RW is measured using ATTO

3. IOPS measure un IOMeter2006

4. TBW is a measurement of SSDs expected lifespan, which represents the amount of data written to the device. This is only an estimate and can differ based in user usage behaviour, platform and estimates provided by the flash vendor

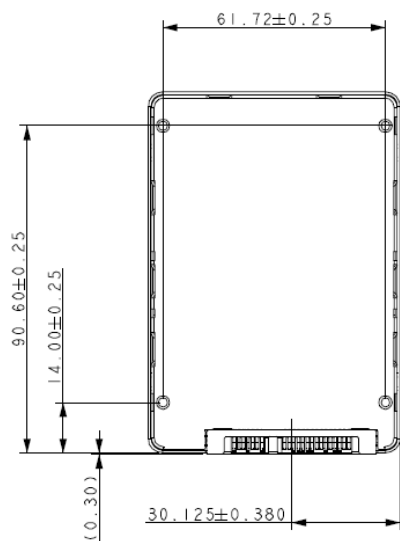
5. Power Consumption may differ according to flash configuration, SDR configuration, and platform

6. Humidity test was for 4 hours

All Specification are subject to change without notice.

7mm to 9mm Adapter supplied with packaged product

Bottom View



Side View

