

## P Series 4 SATA III 6Gb/s 2.5" SSD

**READ 550MB/s\***  
**WRITE 530MB/s\***



120 GB

240 GB

480 GB

960 GB

### INTRODUCTION

The Integral P Series 4 SSD offers exceptional performance levels and great value. It is ideal for use in desktops and laptop computers.

The Performance Series SSD has a great combination of fast data read/write and reliability, along with low power operation - to make this the ideal hard disk drive replacement.

Choose the P Series 4 SSD to boost the performance of your existing hardware and extend its useful life. It will speed up your daily OS boot times and increase the speed of your applications, overall giving you the best experience of Solid State performance computing.

### KEY BENEFITS

- Providing an industry-leading bandwidth of more than 550MB/sec transfers, the Integral P Series 4 SSD can approach the limits of the SATA III 6Gb/s interface on large transfers.
- A robust ECC algorithm corrects up to 72 bits error in 1K 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

- Enhanced performance: faster boot than HDD, faster access to applications, enhanced productivity and increased efficiency
- Read up to 550MB/s\*, Write up to 530MB/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

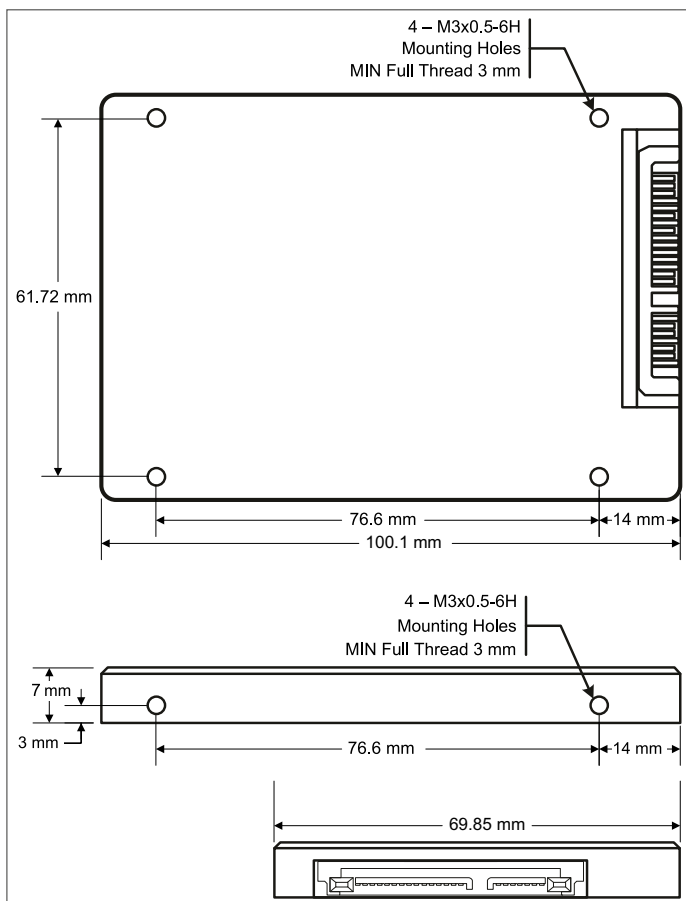
### FEATURES

- 2.5 inch form factor with SATA III 6Gbps interface (backwards compatible with SATA 3Gbps and SATA 1.5Gbps)
- **Performance:** Faster boot than HDD, Faster access to applications, enhanced productivity and increased efficiency
- **Fully compatible with devices and OS that support the SATA standard**
- **Non-volatile Flash Memory for outstanding data retention** - Less likely to fail than HDD
- **Ultra-efficient Block Management and Wear Leveling**
- **Error Correction Code**
- **Lower Power Consumption**
- **Shock resistance** - No moving parts enable the product to be used in tougher conditions
- **Silent operation** - Noiseless and low heat dissipation
- **Supports S.M.A.R.T.** - Self-Monitoring, Analysis and Reporting Technology
- **RoHS compliant**
- **CE and FCC tested**
- **3 Year Warranty**

## Technical Features

- MLC-NAND Flash Technology
- Controller Technology - Phison
- SATA III 2.5"
- TRIM (OS support required)
- S.M.A.R.T. option
- CE and FCC certified and RoHs compliant
- Compatible with Windows XP, Vista, 7 and 8, Linux, Mac OSX+

**7mm to 9mm Adapter supplied with packaged product**



CAPACITIES & INTERFACE	
Capacities available	120GB, 240GB, 480GB, 960GB
Controller Technology	Phison
NAND	MLC
Cache	120GB = 32MB SDR 240GB, 480GB, 960GB = 512MB DDR
Form Factor	2.5 Inch
Interface	SATA III 6Gbps Also Compatible with SATA II 3Gbps Also compatible with SATA III 1.5Gbps
Sequential Speed (up to)*	120GB = READ 530MB/s, WRITE 430MB/s 240GB = READ 550MB/s, WRITE 530MB/s 480GB = READ 550MB/s, WRITE 490MB/s 960GB = READ 550MB/s, WRITE 500MB/s
TBW**	120GB = 317, 240GB = 730 480GB = 1370, 960GB = 2540

DIMENSIONS	
Length mm	100.10
Width mm	69.85
Height mm	7.0
Weight	80g
Packaged Weight	118g
Packaged Dimensions (mm)	L = 100, W = 106, H = 45

POWER CONSUMPTION	
Power Management	5V
Power Consumption (mW)***	120GB - Read 2,585, Write 2,275, Idle 435 240GB - Read 2,780, Write 4,395, Idle 325 480GB - Read 2,820, Write 5,610, Idle 295 960GB - Read 3,220, Write 5,860, Idle 300

ENVIRONMENTAL	
Operating Temp	0° - +70°C
Storage Temp	-40° - +85°C
Humidity****	RH 90% under 40°C (operational)

FEATURES	
Supports SMART Software	Yes
Supports TRIM	Yes (OS support required)
ECC scheme	Corrects up to 72 bits error in 1K Byte data
MTBF	>1 Million Hours
Compliance	CE, FCC, RoHS

WARRANTY	
3 years	

CAPACITY	PART CODE	BARCODE (EAN)
120GB	INSSD120GS625M7XP4	5055288428560
240GB	INSSD240GS625M7XP4	5055288428577
480GB	INSSD480GS625M7XP4	5055288429246
960GB	INSSD960GS625M7XP4	5055288429253

\*Based on internal testing measured under ambient temperature. Sequential R/W is measured using ATTO.

\*\*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 behavior and platform.

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

\*\*\*\*Humidity test was for 4 hours