

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

READ 565MB/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 565MB/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 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

- Enhanced performance: faster boot than HDD, faster access to applications, enhanced productivity and increased efficiency
- Read up to 565MB/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

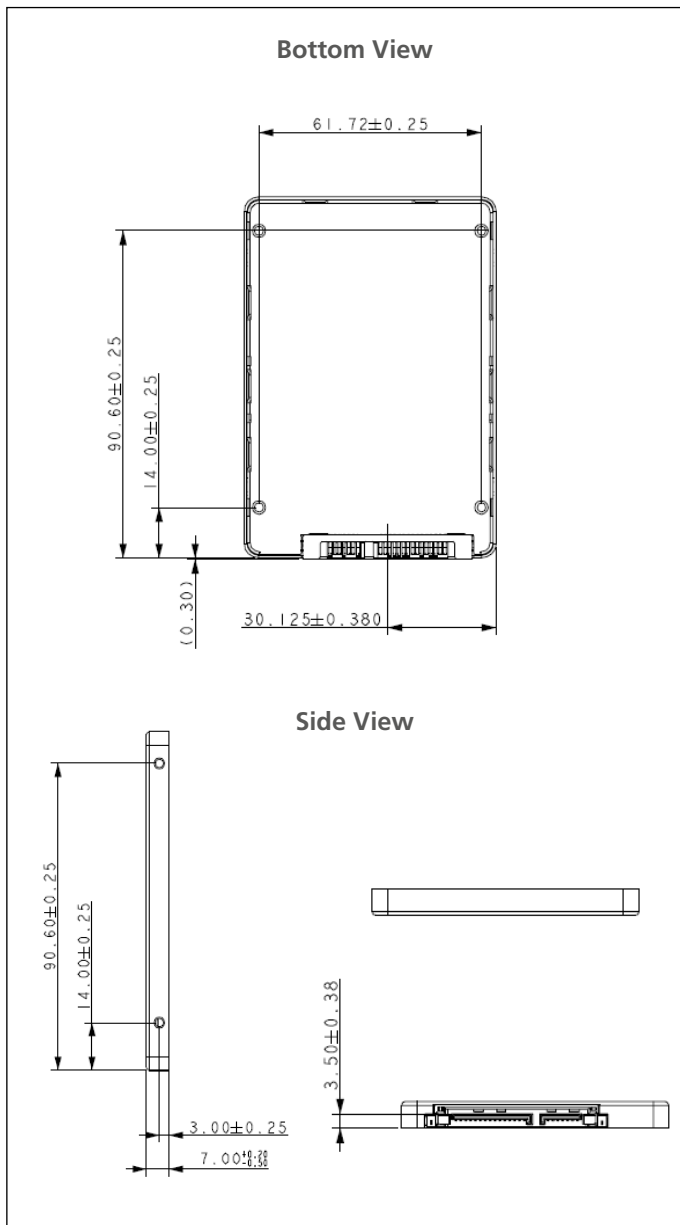
FEATURES

- 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

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

7mm to 9mm Adapter supplied with packaged product



CAPACITIES & INTERFACE	
Capacities available	120GB, 240GB, 480GB, 960GB
Form Factor	2.5 Inch
NAND	TLC
Controller	Phison S10
Interface	SATA III 6Gbps Also Compatible with SATA II 3Gbps Also compatible with SATA 1.5Gbps
Sequential Speed (up to)*	120GB = READ 560MB/s, WRITE 420MB/s 240GB = READ 565MB/s, WRITE 490MB/s 480GB = READ 565MB/s, WRITE 530MB/s 960GB = READ 560MB/s, WRITE 500MB/s
DIMENSIONS	
Length mm	100.00
Width mm	69.85
Height mm	7.0
Weight	50g
E-tail Packaged Weight	64g
E-tail Packaged Dimensions (mm)	L = 133, W = 117, D = 13
Retail Packaged Weight	86g
Retail Packaged Dimensions (mm)	L = 136, W = 111, D = 15
POWER CONSUMPTION	
Power Management	5V
Power Consumption (mW)***	120GB - Read 2,290, Write 2,730, Idle 175 240GB - Read 2,290, Write 2,730, Idle 175 480GB - Read 2,510, Write 5,260, Idle 185 960GB - Read 2,620, Write 3,655, Idle 195
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 120 bits error in 2K Byte data
MTBF	>2 Million Hours
Compliance	CE, FCC, RoHS
WARRANTY	
3 years	

E-tail packaging order codes

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

Retail packaging order codes

CAPACITY	PART CODE	BARCODE (EAN)
120GB	INSSD120GS625M7XP4R	5055288435667
240GB	INSSD240GS625M7XP4R	5055288435674
480GB	INSSD480GS625M7XP4R	5055288435681
960GB	INSSD960GS625M7XP4R	5055288435698

*Based on internal testing measured under ambient temperature. Sequential RW is measured using ATTO.
 ***Power Consumption may differ according to flash configuration, SDR configuration, and platform.
 ****Humidity test was for 4 hours
 E&OE. Product design and specification subject to change or modification without notice.

REVISION HISTORY WITH SEQUENTIAL READ AND WRITE PERFORMANCE*			
	16nm MLC	A19nm TLC	15nm TLC
120GB	Before August 2015 Phison S9 + 16nm MLC Read 545MB/s, Write 440MB/s	From August 2015 Phison S10 + A19nm TLC Read 565MB/s, Write 429MB/s	From November 2015 Phison S10 + 15nm TLC Read 560MB/s, Write 420MB/s
240GB	Before August 2015 Phison S8 + 16nm MLC Read 550MB/s, Write 520MB/s	From August 2015 Phison S10 + A19nm TLC Read 565MB/s, Write 500MB/s	From December 2015 Phison S10 + 15nm TLC Read 565MB/s, Write 490MB/s
480GB	Before August 2015 Phison S8 + 16nm MLC Read 550MB/s, Write 500MB/s	From August 2015 Phison S10 + A19nm TLC Read 565MB/s, Write 530MB/s	From February 2016 Phison S10 + 15nm TLC Read 565MB/s, Write 530MB/s
960GB	Before September 2015 Phison S8 + 16nm MLC Read 550MB/s, Write 490MB/s	From September 2015 Phison S10 + A19nm TLC Read 565MB/s, Write 530MB/s	From January 2016 Phison S10 + 15nm TLC Read 560MB/s, Write 500MB/s

