S3

The best choice for next-generation SSD upgrade
Entry-level SSD offers new developments

S3C

Product features

▶ Advanced technologies and high quality components - Hynix 14nm triple level cell NAND and SMI 2254 controller IC

▶ Exclusive PlexNitro performance optimization technology

▶ Supports -PlexTurbo, PlexCompressor, and PlexVault

▶ 3x faster than typical Hard Disk Drive -sequential read/write speed of up to 550/520 MB/s and random read/write speeds of 92K/79K IOPS.

▶ Available in:2.5" and M.2 2280 form factors

▶ Multiple capacity options: 128, 256, and 512 GB

▶ Three-year warranty

PlexNitro   PlexTurbo   PlexCompressor   PLEXVAULT

PLEXTOR®
True as Promised.

2.5" SATA Solid State Drive

The top choice for next-generation SSD upgrade! The Plextor S3 solid-state drive series uses the latest technologies and components, including our proprietary PlexNitro cache technology. It is combined with intelligent SSD software technologies to provide a high-value SSD masterpiece that meets your computing expectations.

The best price-performance ratio

Satisfy your expectations for entry-level SSDs with the highest performances at affordable prices. The Plextor S3's advantages come from Plextor's advanced technologies, combined with high-quality components and proprietary firmware. The S3 series offers solid-state drives with the highest price-performance ratio.

New processes for advanced components

Only the latest components were selected for the S3 series namely, Hynix's advanced 14nm process triple level cell NAND flash memory, and SMI 2254 controller. These components combined allows the S3 Series to deliver sequential read/write speeds of 550/520 MB/s with random read/write speeds of 92K/79K IOPS. Compared to the sluggish and traditional hard drives, this is a remarkable level of performance. Despite being entry-level devices, their professional quality standard is nonetheless worth noting.

Real capacity of high speed cache

Use the SSDs full storage capacity! The proprietary industry-leading PlexNitro technology uses SLC cache design, which means the S3 does not need to reserve over-provisioning space, thus leading to accelerated read/write speeds. This means the users can use the full capacity of the drive. Take 128GB SSD as an example: after deducting the over-provisioning space used by other brands, only about 120GB of space will be left. With the PlexNitro performance optimization technology,, however, the full 128GB of space can be used, with no reduction at all.

Ideal for custom PC building and upgrades

The S3 series comes in two form factors - SATA 2.5-inch (S3C) and M.2 2280 (S3G) . It can fully satisfy the installation requirements of desktop and laptop devices, as well as other devices that use SSDs. This makes the S3 series the most flexible choice.

Plextor's high quality product guarantee

The S3 Series boasts of Plextor's consistent guarantee of the highest quality standards. It has passed rigorous inspections with the most advanced SSD testing equipment in the world; not a single error or fault is allowed (Zero Error). It also uses the "Plextor endurance testing mechanism" to simulate a range of professional read-write scenarios, to ensure stability and data security for users.

S3 2.5 SATA Solid State Drive

Specification			
Model	PX-128S3C	PX-256S3C	PX-512S3C
Capacity	128 GB	256 GB	512GB
Cache	256 MB DDR3	512 MB DDR3	512 MB DDR3
Controller	SMI SM2254		
NAND Flash	Hynix 14nm TLC		
Performance (Under Windows NTFS)			
Sequential Read Speed (MB/s)*	Up to 550	Up to 550	Up to 550
Sequential Write Speed (MB/s)*	Up to 500	Up to 510	Up to 520
Random Read Speed (IOPS)*	Up to 72000	Up to 90000	Up to 92000
Random Write Speed (IOPS)*	Up to 57000	Up to 71000	Up to 79000
Environment and Reliability			
Power Requirement (Max.)	DC 5V 1.0A	DC 5V 1.5A	DC 5V 2.0A
Temperature	0°C~70°C / 32°F~158 °F (Operating)		
Shock	1500G (Max.) , at 1 msec half-sine		
Vibration	7~800Hz，3.08Grms (Operating)		
MTBF	1,500,000Hours		
Endurance (TBW)	50	100	200
Warranty	3 years		
Compatibility			
Operating System Supported	Microsoft Windows OS / Linux OS / Mac OS		
Agency Approval	UL, TUV, FCC, CE, BSMI, VCCI, RCM, KCC, EAC, ROHS, WHQL		
Command Set Support	TRIM, S.M.A.R.T., NCQ, ATA/ATAPI-8		
Interface	SATA 6.0 Gb/s, compatible with SATA 3.0/1.5Gb/s		
Firmware Upgrade	Support		
Form Factor and Connectors			
Form Factor	2.5 inch form factor		
Power Connector	15-pin SATA connector for DC 5V input		
Data Connector	7-pin SATA Connector		
Dimension and Weight			
Dimension (L/W/H)	100 x 69.85 x 6.8 mm / 3.94 x 2.75 x 0.27 inch		
Weight (Max.)	60g / 2.12oz		
Package Content			
Drive	128 GB / 256GB / 512 GB		
Documents	Quick Installation Guide		

Specifications subject to change without notice.

Actual performance may vary based on hardware, software, and overall system configuration.

* Performance measured using CrystalDiskMark ver.3, IOMETER with queue depth set to 32.

Test Platform: Motherboard: ASUS P8P67 PRO (Windows 7 x64)

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