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**READ-INTENSIVE APPLICATIONS HAVE MET THEIR MATCH IN NEW  
TOSHIBA ENTERPRISE SSD**

*The PX03SN is ideally suited for media streaming, read-caching, and low-to-mid duty primary storage*

**IRVINE, Calif. — December 2, 2013** — The Storage Products Business Unit of Toshiba America Electronic Components, Inc., a committed technology leader, announces a new enterprise read-intensive solid state drive (eSSD) – the PX03SN. Designed to support the widest possible range of read-intensive applications, the PX03SN is available in capacities of up to 1.6TB<sup>1</sup> and supports one full drive write per day<sup>2</sup>. The new 2.5-inch form factor SAS interface eSSD is designed for read-intensive applications, server storage and caching applications, and storage systems where customers are looking for a balance between cost, endurance and performance.

Optimized for read-intensive, read-caching, and low-duty storage applications, the newest addition to the eSSD family features a 12 Gbit/s<sup>3</sup> SAS interface. The PX03SN reflects Toshiba’s continued storage innovation and is optimized for its target segment with NAND flash processes, density, endurance and interface implementation.

“Toshiba gives customers a ‘one stop shop’ capability for their storage requirements, including both SSDs and hard disk drives (HDDs) for customers’ mobile and enterprise needs,” said Don Jeanette, senior director of marketing at Toshiba Storage Products Business Unit. “We are seeing increasing demand for

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<sup>1</sup> Definition of capacity: Toshiba defines a megabyte (MB) as 1,000,000 bytes, a gigabyte (GB) as 1,000,000,000 bytes and a terabyte (TB) as 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2<sup>30</sup> = 1,073,741,824 bytes and therefore shows less storage capacity. Available storage capacity (including examples of various media files) will vary based on file size, formatting, settings, software and operating system, such as Microsoft Operating System and/or pre-installed software applications, or media content. Actual formatted capacity may vary.

<sup>2</sup> One full drive write per day means the drive can be written and re-written to full capacity 1 time a day for five years, the stated product warranty period. Actual results may vary due to system configuration, usage, and other factors.

<sup>3</sup> Read and write speed may vary depending on the host device, read and write conditions, and file size.

eSSDs that offer a SAS interface and meet customers' endurance and price requirements without sacrificing performance.”

The PX03SN 200/400/800GB and 1.6TB, read-intensive customer samples will begin shipping this month. For more information on Toshiba's line of industry-leading SSDs, HDDs and SSHDs, visit [www.toshibastorage.com](http://www.toshibastorage.com). To connect with Toshiba Storage, visit the corporate blog at <http://storage.toshiba.com/corporateblog/> and follow [@ToshibaStorage](https://twitter.com/ToshibaStorage) on Twitter.

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## Specifications

		PX03SN series			
		PX03SNB160	PX03SNF080	PX03SNF040	PX03SNF020
<b>User Capacity</b>	GB	1600GB	800GB	400GB	200GB
<b>NAND</b>		19nm MLC			
<b>Interface</b>		SAS-3.0 (12.0Gbit/s, 6.0Gbit/s, 3.0Gbit/s, 1.5Gbit/s)			
<b>Form Factor (Height)</b>	2.5" SFF	15.0 mm +0, -0.5 mm	7.0 mm +0, -0.5 mm		
<b>Performance</b> (@ QD = 32, Aligned, Sustained, Entropy=100%)					
Sequential Read 64KiB	MB/s	1060 MiB/s	1100 MiB/s		
Sequential Write 64KiB	MB/s	380 MiB/s			
Random Read 4KiB	KIOPS	130,000 IOPS			
Random Write 4KiB	KIOPS	26,000 IOPS			
Power consumption Ready (Idle A)	Typ.	3.6 W Typ.	2.7 W Typ.		
Power consumption efficiency	IOPS	19,500 IOPS/W	24,400 IOPS/W		
MTTF	MPOH	2,000,000 hours			
Product Life	Years	5 years			
<b>Temperature</b>					
Operating	Ta C	0 to 55°C			
Non-Operating	Ta C	-40 to 70°C			
<b>Vibration/Shock</b>					
Vibration (Operating)		21.27 m/s <sup>2</sup> {2.17Grms} (5 to 800Hz)			
Vibration (Non-operating)		159.74 m/s <sup>2</sup> {16.3Grms} (20 to 2000Hz)			
Shock (Operating)		9,800 m/s <sup>2</sup> {1,000G} / 0.5 ms duration			
Shock (Non-operating)		9,800 m/s <sup>2</sup> {1,000G} / 0.5 ms duration			

<b>Others</b>	
Power Loss Protection	Yes

### **About Toshiba Storage Products**

Toshiba Corporation and its affiliates offer one-of-a-kind global storage solutions, offering hard disk drives (HDDs), solid state drives (SSDs) and NAND flash memories — technologies that drive a wide range of consumer electronics, computer and automotive applications, as well as enterprise solutions for the global marketplace. Toshiba is a leader in the development, design and manufacture of mobile, consumer and enterprise hard disk drives and solid state drives. In North America, the Storage Products Business Unit of Toshiba America Electronic Components, Inc., markets high-quality storage peripherals to original equipment manufacturers, original design manufacturers, value-added resellers, value-added dealers, systems integrators and distributors worldwide. Inherent in the Toshiba storage family are the high-quality engineering and manufacturing capabilities that have established Toshiba products as innovation leaders worldwide. For more information, visit [www.toshibastorage.com](http://www.toshibastorage.com).

### **About Toshiba Corp. and Toshiba America Electronic Components, Inc. (TAEC)**

Through proven commitment, lasting relationships and advanced, reliable electronic components, Toshiba enables its customers to create market-leading designs. Toshiba is the heartbeat within product breakthroughs from OEMs, ODMs, CMs, VARs, distributors and fabless chip companies worldwide. A committed electronic components leader, Toshiba designs and manufactures high-quality flash memory-based storage solutions, solid state drives (SSDs), hard disk drives (HDDs), discrete devices, advanced materials, medical tubes, custom SoCs/ASICs, imaging products, microcontrollers and wireless components that make possible today's leading smartphones, tablets, MP3 players, cameras, medical devices, automotive electronics, enterprise solutions and more.

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