

**Toshiba Announces Availability of Latest Enterprise-Class HDDs and SSDs**

*High capacity HDDs and SSDs address capacity, performance and efficiency demands of data-intensive enterprise and cloud storage applications*



The accompanying image can be downloaded at:

[www.pinnaclecrc.com/PR\\_PICTURES/Toshiba/6347/](http://www.pinnaclecrc.com/PR_PICTURES/Toshiba/6347/)

**Düsseldorf, Germany, 22<sup>nd</sup> May, 2013** – Toshiba – the inventor of NAND Flash memory - has announced full European availability of its latest Enterprise-class PX02SMx SSDs (solid state drives) and MG03xxxx HDDs (hard disk drives). These storage devices are ideal for a wide range of business-critical server and storage platforms as well as private cloud storage infrastructures.

PX02SMx enterprise SSDs (eSSD) utilize cost-effective 24nm eMLC (enterprise multi-level cell) NAND technology and are available with capacities of 200GB<sup>1</sup> (PX02SMF020), 400GB (PX02SMF040), 800GB (PX02SMF080) and 1.6TB (PX02SMB160). The drives feature a dual-port 12Gb/sec SAS interface and support Cryptographic erase. Furthermore, the eSSDs incorporate Toshiba's proprietary Quadruple Swing-By Code (QSBC™) for improved error correction and reliability.

Toshiba's HDDs are supplied in a 3.5 inch (8.9 cm) form factor, have been designed to accommodate 24/7 operation and can be supplied with Toshiba's Enhanced Secure Cryptographic Erase feature. The MG03ACAx series is equipped with a SATA interface and

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is available with capacities of 1TB (MG03ACA100), 2TB (MG03ACA200), 3TB (MG03ACA300) and 4TB (MG03ACA400). The MG03SCAx series is fitted with a SAS interface and is also available with capacities of 1TB (MG03SCA100), 2TB (MG03SCA200), 3TB (MG03SCA300) and 4TB (MG03SCA400).

These new devices aim to provide organizations with ability to meet the capacity, security and efficiency challenges of the cloud computing and big data revolutions that are expected to transform the storage business environment over the next 10 years.

For more information please visit our Toshiba storage website at [www.storage.toshiba.eu](http://www.storage.toshiba.eu).

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**SSD Specifications**

Model Number				
	PX02SMF020	PX02SMF040	PX02SMF080	PX02SMB160
Functional Specifications				
<b>Formatted Storage Capacity</b>	200GB	400GB	800GB	1.6TB
<b>NAND</b>	24nm eMLC (64GB/die)			
<b>Interface</b>	SAS 6.0/12 Gbps			
<b>Performance: Random Read (4KiB)</b>	120,000 IOPS			
<b>Random Write (4KiB)</b>	25,000 IOPS			
<b>Sequential Read (64 KiB)</b>	900 MiB/s			
<b>Sequential Write (64 KiB)</b>	400 MiB/s			
Physical Specifications				
<b>Form factor</b>	2.5 inch			
<b>Height</b>	7mm	7mm	7mm	15mm
<b>Width</b>	69.85 mm			
<b>Depth</b>	100.45 mm			
<b>Ambient Temperature (operating)</b>	From 0°C to +55°C			
<b>Case Temperature (operating)</b>	From 0°C to +60°C			
<b>Ambient Temperature (non-operating)</b>	From -40°C to +70°C			
<b>MTBF</b>	2,000,000 hours			
<b>Product Life</b>	5 years			

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**HDD Specifications**

Model Number				
<b>SATA 2.6/3.0 Interface</b>	MG03ACA100	MG03ACA200	MG03ACA300	MG03ACA400
<b>SAS 2.0 Interface</b>	MG03SCA100	MG03SCA200	MG03SCA300	MG03SCA400
Functional Specifications				
<b>Formatted Storage Capacity</b>	1TB	2TB	3TB	4TB
<b>Rotational Speed</b>	7,200 rpm			
<b>Interface Speed</b>	1.5, 3.0, 6.0 Gbps			
<b>Data Buffer Size</b>	64 MiB			
<b>Logical Data Block</b>	512 Byte			
Physical Specification				
<b>Form factor</b>	3.5 inch			
<b>Height</b>	26.1mm			
<b>Width</b>	101.6 mm			
<b>Depth</b>	147 mm			
<b>Weight (max.)</b>	720g			
<b>Acoustics (Ready)</b>	31 dB			
<b>MTBF</b>	1,200,000 hours			

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### **About Toshiba Electronics Europe**

Toshiba Electronics Europe (TEE) is the European electronic components business of Toshiba Corporation, which is ranked among the world's largest semiconductor vendors. TEE offers one of the industry's broadest IC and discrete product lines including high-end memory, microcontrollers, ASICs and ASSPs for automotive, multimedia, industrial, telecoms and networking applications. The company also has a wide range of power semiconductor solutions as well as storage products like HDDs, SSDs, SD Cards and USB sticks.

TEE was formed in 1973 in Neuss, Germany, providing design, manufacturing, marketing and sales and now has headquarters in Düsseldorf, Germany, with branch offices in France, Italy, Spain, Sweden and the United Kingdom. TEE employs approximately 300 people in Europe. Company president is Mr. Takashi Nagasawa.

For more company information visit TEE's web site at [www.toshiba-components.com](http://www.toshiba-components.com).

### **About Toshiba**

Toshiba Corporation is a world-leading diversified manufacturer, solutions provider and marketer of advanced electronic and electrical products and systems. Toshiba Group brings innovation and imagination to a wide range of businesses: digital products, including LCD TVs, notebook PCs, retail solutions and MFPs; electronic devices, including semiconductors, storage products and materials; industrial and social infrastructure systems, including power generation systems, smart community solutions, medical systems and escalators & elevators; and home appliances. Toshiba was founded in 1875, and today operates a global network of more than 550 consolidated companies, with 202,000 employees worldwide and annual sales surpassing US\$74 billion.

Visit Toshiba's web site at [www.toshiba.co.jp/index.htm](http://www.toshiba.co.jp/index.htm).

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