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/

Düsseldorf, Germany, 22nd 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[1] (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

1. One Gigabyte (1GB) means 10^9 = 1,000,000,000 bytes. One Terabyte (1TB) means 10^{12} = 1,000,000,000,000 bytes. A computer operating system, however, reports storage capacity using powers of 2 for the definition of 1GB = 2^{30} = 1,073,741,824 bytes and 1TB = 2^{40} = 1,099,511,627,776 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 and other factors.

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.

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SSD Specifications

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

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HDD Specifications

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

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.

Contact details for publication:

Toshiba Electronics Europe, Hansaallee 181, D-40549 Düsseldorf, Germany

Tel: +49 (0) 211 5296 0 Fax: +49 (0) 211 5296 792197

Web: www.storage.toshiba.eu

E-mail: spdinfo@tee.toshiba.de

Contact details for editorial enquiries:

Carolin Wagner, Toshiba Electronics Europe

Tel: +49 (0) 89 2030203 43

E-mail: spd-press@tee.toshiba.de

Issued by:

June Stokes/Matt Wilkinson, Pinnacle Marketing Communications Ltd,

Tel: +44 (0) 20 8429 6556/+44 (0) 20 8429 6548 Fax: +44 (0) 20 8868 4373.

Web: www.pinnacle-marketing.com

E-mail: j.stokes@pinnaclemarcom.com or m.wilkinson@pinnaclemarcom.com

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