

Toshiba announces availability of 19nm NAND SSDs

New series with capacities from 60GB to 512GB combines high performance and efficiency for data-intensive, energy-sensitive applications

Düsseldorf, Germany, 13 March, 2013 - Toshiba Electronics Europe (TEE) has announced that solid state drives (SSDs) built on the company's 19nm Multi-Level Cell (MLC) NAND flash technology are now readily available across Europe. Toshiba was the first company to develop 19nm NAND SSDs and the family includes the world's smallest and highest density NAND flash drives.

Toshiba's THNSNH family addresses the storage, performance and power efficiency demands of even the most data-intensive and energy-sensitive systems. The drives are ideal for high-end notebooks, tablets, PCs, all-in-one desktop computers and industrial PCs. Capacities of 512GB¹, 256GB, 128GB and 60GB are all now available in 2.5-inch form factors with a choice of 7.0mm and 9.5mm profiles. mSATA™ modules with capacities of 256GB, 128GB and 60GB are also available.

Toshiba's innovation with the THNSNH series includes data protection through use of Quadruple Swing-By Code (QSBC™), Toshiba's robust and highly efficient error correction code technology.

For more information please visit our Toshiba storage website at www.storage.toshiba.eu.

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 $1\text{GB} = 2^{30} = 1,073,741,824$ bytes and $1\text{TB} = 2^{40} = 1,099,511,627,776$ 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.

Specifications

Model Number	THNSNHxxxGBST	THNSNHxxxGCST	THNSNHxxxGMCT
Form Factor	2.5-inch case		mSATA module
Storage Capacity (Formatted)	60GB/128GB/256GB/512GB	60GB/128GB/256GB/512GB	60GB/128GB/256GB
NAND Technology	19nm MLC NAND		
Transfer Rate to Host	Up to 6Gb/s		
Data Transfer Rate Max Sequential Read	534MB/s (510MiB/s)		
Data Transfer Rate Max Sequential Write	(512GB/256GB) 482MB/s (460MiB/s)	(512GB/256GB) 482MB/s (460MiB/s)	(128GB/256GB) 471MB/s (450MiB/s)
	(128GB) 471MB/s (450MiB/s)	(128GB) 471MB/s (450MiB/s)	(60GB) 450MB/s (430MiB/s)
	(60GB) 450MB/s (430MiB/s)	(60GB) 450MB/s (430MiB/s)	
MTTF	1.5M hours		
External Dimensions (W x D x H)	69.85mm x 100.0mm x 9.5mm	69.85mm x 100.0mm x 7.0mm	30.0mm x 50.95mm x 3.95mm
Maximum Weight	51g (60GB/128GB) 55g (256GB/512GB)	49g (60GB/128GB) 53g (256GB/512GB)	7.5g (60GB/128GB) 7.8g (256GB)

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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.

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