Media Inquiries:
Rachel Austin
Waggener Edstrom Worldwide
512-527-7018
raustin@waggeneredstrom.com

TOSHIBA SELF-ENCRYPTING HDD MEETS GOVERNMENT-CLASS SECURITY REQUIREMENTS

Toshiba's self-encrypting HDD is validated to U.S. Federal Information Processing Standard

IRVINE, Calif., March 24, 2014 – The Storage Products Business Unit of Toshiba America Electronic Components, Inc., a committed technology leader, announces the MQ01ABUxxxBW series, a mobile-grade thin 7mm hard disk drive (HDD) with self-encrypting technology, including Toshiba's unique wipe technology, which automatically erases data when an HDD is accessed by an unregistered system, has achieved validation to U.S. Federal Information Processing Standard 140-2 (FIPS 140-2). The MQ01ABUxxxBW series is the first Toshiba self-encrypting drive (SED) validated to the FIPS 140-2 standard. Toshiba's SED models are designed to the Trusted Computing Group's (TCG) industry-standard "Opal" Security Sub-Classification. This globally accepted standard, implements protocols created to help IT managers, security management application providers and client security professionals to better manage data security and to help prevent potentially damaging and costly breaches to sensitive information. The FIPS-validated model also provides tamper-evident labeling for additional security, with a resulting validation to Level Two of the FIPS 140-2 standard.

The 7mm mobile thin SED series underwent rigorous cryptographic module validation testing by a U.S. National Institute of Standards and Technology (NIST)-certified testing laboratory in order to be validated by the U.S. Federal Information Processing standard. As a result of this validation, this Toshiba HDD series is now available for use in highly regulated and security-sensitive storage applications, such as government systems. The combination of support for ATA (Advanced Technology Attachment) Enhanced Secure Cryptographic Erase function, the TCG-Opal SSC (Security Subsystem Class) protocols, the Toshiba wipe technology extensions

of the Opal protocols, and the FIPS 140-2 module level validation makes the MQ01ABUxxxBW series suitable for encrypting confidential data stored on client-grade mobile and desktop computers protected by security management applications.

Unlike software-based encryption products, SEDs perform encryption securely within the drive's hardware at full interface speeds. This helps to improve system performance, and reduce support burden and integration concerns versus software encryption which performs encryption as a background software task that can negatively impact user productivity. In addition, SED use can eliminate the need for a "re-encryption" cycle during initial client configuration and the drive's embedded SED encryption cannot be disabled, thus decreasing the risk that security practices required by policy for legal compliance might be put at risk by end-user actions.

Some printer manufacturers, copiers and other OEM commercial systems apply the added security enabled by Toshiba's unique wipe technology. Wipe technology helps make it so that self-encrypting drives in such systems can be easily and securely cryptographically erased to protect against data breaches when systems are retired from service, re-deployed or returned to a third party service provider.

Toshiba's MQ01ABUxxxBW series is currently shipping. For more information on this model's FIPS 140-2 validation, please reference certificate number 2082 and visit the US NIST CMVP website http://csrc.nist.gov/groups/STM/cmvp/validation.html#0. For more information on Toshiba's portfolio of industry-leading solid state drives, hard drives and hybrid storage solutions, visit www.toshibastorage.com. To connect with Toshiba Storage, visit the corporate blog at http://storage.toshiba.com/corporateblog/ and follow @ToshibaStorage on Twitter.

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Specifications

Model name	Recording Capacity	Height	Interface	Suitable Application	Security
MQ01ABU050BW	500GB[1]	7mm	SATA	Mobile PC, MFP, POS Government use	• SED (TCG-OPAL SSC) • Cryptographic-erase (Sanitize) • Wipe technology • FIPS 140-2 validated
MQ01ABU032BW	320GB				

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.

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), solid state hybrid drives (SSHDs), discrete devices, custom SoCs/ASICs, imaging products, microcontrollers, wireless components, mobile peripheral devices, advanced materials and medical tubes that make possible today's leading smartphones, tablets, cameras, medical devices, automotive electronics, industrial applications, enterprise solutions and more.

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[1] 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^{30} = 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.