



Virtium Debuts New Self-Encrypting Drives

New SEDs Include AES-256 Encryption, Industry-First Features Tailored to the Industrial-Embedded Market

RANCHO SANTA MARGARITA, Calif. – June 28, 2016 – Virtium, a leading solutions-driven provider of industrial solid state drive (SSD) and memory products, today announced its StorFly® self-encrypting drives (SEDs). Further enhancing Virtium’s vtSecure® technology, the new SSDs now include industry-leading AES-256 encryption security support – the strongest among the Advanced Encryption Standard ciphers – for the Industrial Internet of Things (IIoT). With these new SEDs, Virtium is the only provider of industrial-grade SSDs with self-encryption available across all major drive form factors.

“Virtium’s new SED SSDs are a perfect fit for embedded systems that require encryption in addition to our leading small-footprint, industrial-temperature, high-endurance, and low-power storage innovations,” said Scott Phillips, vice president of marketing at Virtium. “These encryption solutions support multiple SATA form factors, including 2.5”, 1.8”, Slim SATA, mSATA, M.2, and CFast. Additionally, they support all three StorFly classes – CE (MLC), XE (industrial-grade MLC) and PE (SLC). This new, broader array of SSD offerings provides OEMs and system designers with industrial security solutions not previously available without significant compromises to reliability. And while the consumer and enterprise markets may offer encrypted SSDs, they may not support the industrial temperatures, shock/vibration requirements and product longevity that Virtium’s new SEDs do.”

Many industrial-system makers and their customers continue to push functionality closer and closer to the network edge and the end-customer. This puts systems and the data they hold at risk for hacking and data theft. Through its new SEDs, Virtium is addressing the need for added security for data at rest without sacrificing the industrial features those customers have come to rely on.

A Virtium SED uses random AES encryption keys that are generated at product initialization (leveraging the drive controller’s integrated random number generator), which are hashed and then stored within the drive itself. They are used in conjunction with the integrated AES encryption engine to encrypt and store the host data on the NAND flash without burdening the host system (unlike software-based encryption solutions). The encryption keys are non-retrievable and cannot be changed without the complete loss of the data on the SSD.

Virtium's new StorFly SEDs are Trusted Computing Group Opal 2.0-compatible and support hardware and software initiated crypto-erase and block-erase features that satisfy requirements of the National Institute of Standards and Technology Special Publication 800-88 Revision 1 Guidelines for Media Sanitization. These features are persistent through power interruption cycles.

Virtium SED Highlights

- Integrated AES encryption engine with self-encrypting capabilities and secure erase support specifically built for the industrial/embedded market
- Encryption for SATA in all popular form factors providing system designers with options previously unavailable
- Support of industrial operating temperatures (-40C to 85C), extending new levels of security to designs in extreme operating conditions
- Includes vtGuard™ Power Fail Protection and accessible by Virtium's new vtView® SSD Software

Availability, Further Information

For more information to Virtium's new StorFly SEDs and its broad portfolio of solid state storage and memory solutions, visit www.virtium.com, call 888.847.8486 or email sales@virtium.com.

About Virtium

Virtium is a leading supplier of industrial-grade solid-state storage and memory solutions for the world's top OEMs. For nearly two decades, it has designed and built its products in the USA, fortified by a global network of sales and support locations. Virtium's world-class technology and unsurpassed customer support result in superior industrial embedded solutions for our interconnected world.

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