

ATP Announces Certified Technical Security Solutions for the German Fiscal Market

Tamper-Proof TSE Flash Storage Prevents Manipulation of Cash Registers



Taipei, Taiwan (May 2020) – ATP Electronics, the leading manufacturer of “Industrial Only” memory and storage solutions, has announced the introduction of its lineup of Technical Security Devices (TSE), also known as Certified Technical Security Solutions (CTSS), for the German fiscal market.

These solutions comply with the new statutory requirements set by the German Federal Office for Information Security (BSI) that electronic cash registers and PC-based point-of-sale (POS) systems that are in or going into service in Germany should be equipped with a TSE to avoid manipulation of the transaction data for the purpose of tax fraud.

According to BSI regulation TR-03153, all electronic cash registers in Germany need to be equipped with a TSE approved and certified by the BSI by December 31, 2022. Cash registers that have been in service by the end of 2019 may be retrofitted any time before this deadline; however, new systems shipped from 2020 onwards are required to use a TSE from September 30, 2020 at the latest, thanks to a grace period that was recently given by German authorities to allow for a smoother transition.

A TSE is a security system that ensures tamper-proof recording to make sure that stored data cannot be manipulated. It typically consists of two components:

- **Security Module Application for Electronic Record-keeping Systems (SMAERS)** - manages the transaction data flow from the cash register into the CSP and the NAND and prepares the data if requested by the tax authorities.
- **Cryptographic Service Provider (CSP)** - digitally signs transactions, which are then stored in the NAND media.

“Rock-solid security is a critical requirement of mission-critical applications and the Internet of Things (IoT). As more intelligent things become connected, we have greater opportunities, but we are also faced with more vulnerabilities to cyber threats and attacks,” said David Raquet, ATP Director of Security Enablement. “The ATP TSE devices are integral components of our wholistic solutions that intensively address security concerns in the industry. Under the SecurStor umbrella, ATP offers a suite of customizable features that protect mission-critical applications against unauthorized access to data or systems to prevent any form of manipulation.”

ATP's TSE storage solutions leverage the long-term business relationships with leading suppliers of cash registers for the German market. They are not only fully compliant with the TR-03153 specification as defined by the BSI, but also integrate a number of additional features, tools and performance optimizations specifically targeted for POS applications. Among other things, these include a set of drivers and operation tools for all major platforms and operating systems, which can be integrated into the cash register software and ensures the reliable transmission of transaction data into the TSE.

They will be available in a variety of form factors and capacities, including microSD, SD and USB, and will be certified by the TÜV Informationstechnik GmbH to assure the highest-quality standards and full compliance with the certification requirements defined by the BSI.

ATP's TSE storage solutions are part of the ATP SecurStor Security Suite, ATP's answer to the growing security needs in the industry. SecurStor protects mission-critical applications against unauthorized access to data or systems. SecurStor-enabled products include features that include, but goes far beyond, conventionally available data-at-rest protection mechanisms and can be customized to the individual requirements of an application or a system.

For inquiries and sample requests for conducting functional tests while formal certification tests are being completed, please contact ATP regional sales, distributors, or send an email to Info@atpinc.com.

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For more information on the product, visit: <https://www.atpinc.com/application/securstor-security-suite>

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About ATP

ATP Electronics is the leading provider of "Industrial Only" NAND flash products and DRAM modules for demanding industrial/automotive applications requiring the highest levels of performance, reliability and endurance. A true manufacturer for over 25 years, ATP manages every stage of the manufacturing process to ensure quality and product longevity, offering in-house design, testing, and tuning from component to product level. For more information on ATP Electronics, please visit www.atpinc.com or contact us at info@atpinc.com.