

New Product Announcement

Mouser Now Stocking Maxim DS28E39 and DS28E84 DeepCover Authenticators for Medical Device Protection

May 21, 2019 – [Mouser Electronics](http://www.mouser.com), Inc., the industry's leading New Product Introduction (NPI) distributor with the widest selection of semiconductors and electronic components, is now stocking the [DS28E39](#) and [DS28E84](#) DeepCover® authenticators from [Maxim Integrated](http://www.maximintegrated.com). The secure authenticators enable engineers to add an extra layer of protection to applications such as [Internet of Things](#) (IoT) nodes, device management, secure peripherals, and medical [sensors](#).

The Maxim [DS28E39](#) and [DS28E84](#) DeepCover authenticators, available from Mouser Electronics, help design engineers safeguard [medical](#) devices against invasive attacks. The devices provide a core set of cryptographic tools derived from integrated blocks, including an asymmetric ECC-P256 hardware engine (plus a symmetric SHA-256 compute engine in the DS28E84), a FIPS-compliant (FIPS/NIST-compliant for the DS28E39) true random number generator, and a decrement-only counter. The devices also include onboard nonvolatile memory (2 Kbits of secured EEPROM on the DS28E39, and 15 Kbits of FRAM on the DS28E84) and offer a unique 64-bit ROM identification number, which is used as a fundamental input parameter for cryptographic operations and serves as an electronic serial number within the application.

Designed to protect devices against security attacks, the [DS28E39](#) is an Elliptic Curve Digital Signature Algorithm (ECDSA) public key-based secure authenticator that incorporates Maxim's patented ChipDNA™ physically unclonable function (PUF) technology. Attempts to probe or observe ChipDNA operation modifies the underlying circuit characteristics, preventing discovery of the unique value used by the chip cryptographic functions.

The [DS28E84](#) is a radiation-resistant secure authenticator designed for medical devices. High radiation exposure used in sterilization processes can disrupt and damage the standard nonvolatile memory (NVM) that electronic medical devices use for auto identification, as well as calibration and manufacturing data. The DS28E84 IC's high radiation resistance up to 50 kilograys allows user-programmable manufacturing or calibration data before medical sterilization, protecting against unauthorized reuse and enhancing patient safety.

Both the DS28E39 and DS28E84 communicate over the single-contact 1-Wire® bus at both standard and overdrive speeds, allowing for simple integration into designs. The communication follows the 1-Wire protocol with the ROM ID acting as node address in the case of a multi-device 1-Wire network.

To learn more about the DS28E39 authenticator with ChipDNA technology, visit www.mouser.com/maxim-ds28e39-authenticator. For more information on the radiation-resistant DS28E84 authenticator, go to www.mouser.com/maxim-ds28e84-authenticator.

With its broad product line and unsurpassed customer service, Mouser strives to empower innovation among design engineers and buyers by delivering advanced technologies. Mouser stocks the world's widest selection of the latest semiconductors and electronic components for the newest design projects. Mouser Electronics' website is continually updated and offers advanced search methods to help customers quickly locate inventory. Mouser.com also houses data sheets, supplier-specific reference designs, application notes, technical design information, and engineering tools.

About Mouser Electronics

Mouser Electronics, a Berkshire Hathaway company, is an award-winning, authorized semiconductor and electronic component distributor focused on rapid New Product Introductions from its manufacturing partners for electronic design engineers and buyers. The global distributor's website, Mouser.com, is available in multiple languages and currencies and features more than 5 million products from over 750 manufacturers. Mouser offers 25 support locations around the world to provide best-in-class customer service and ships globally to over 600,000 customers in more than 220 countries/territories from its 750,000 sq. ft. state-of-the-art facility south of Dallas, Texas. For more information, visit www.mouser.com.

About Maxim Integrated

Maxim is the leader in analog integration. From mobile to industrial solutions, Maxim is making analog smaller, smarter and more energy efficient.

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