Traceability and Risk Analysis Strategies for Addressing Counterfeit Electronics in Supply Chains for Complex Systems
By Daniel DiMase, Zachary A. Collier, Jinae Carlson, Robin B. Gray Jr., and Igor Linkov

There is a growing concern in the microelectronics industry when it comes to integrating counterfeit electronic parts into the supply chain. Unfortunately, the attempts to execute secure measures of testing and supply chain management have been limited.

As we become a more technologically advanced world, the quality of counterfeit parts increases, and thus, it becomes critical that more reliable inspection methods are required in order to maintain the necessary level of security. Although it is inevitable that counterfeits will enter the supply chain regardless of how many security measures are implemented, significant reduction and detection is the goal. In order for companies to better protect themselves, it is essential to know about the complexities of the electronics supply chain, gaps in risk assessment practices, and enhanced traceability capabilities.

Gaining a better understanding of the conflicting issues and strategies that can be implemented will help companies prevent the use of counterfeit electronic parts, and ultimately support the efforts of creating global economic prosperity and national security.

Read the complete article.

ECIA is an SDO (Standards Development Organization) accredited by the American National Standards Institute (ANSI) to produce standards for use by the electronic components industry.

ECIA standards committees generate specifications, test procedures and other guidelines primarily for passive electronic components (e.g., sockets, connectors, capacitors, resistors) and related technologies such as soldering or automated component handling equipment that are used worldwide.
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