# A Design of Lightweight RFID Anti-Counterfeiting Mechanism

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**Abstract.** The counterfeiting problem affects manufactures, distributors, governments and consumers. Brand owners need techniques for guaranteeing the authenticity of their products in today's global marketplace. Radio-frequency identification (RFID) is considered as a promising approach because it provides an extensible, flexible and secure measure to combat counterfeiting. Several RFID anti-counterfeiting mechanisms have been proposed in resent years. In this paper, we present a new lightweight anti-counterfeiting authentication scheme that can be applied in low-cost RFID system.

**Keywords:** RFID, anti-counterfeiting, authentication, low-cost tags

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