

Printed Secure Unique ID Tag

The Ambrósus Printed Secure Unique ID Tag is the base to serialization of raw or finished products. The electronic printing technology offers low prices and high scalability to tag previously untaggable products

FEATURES



FULLY PRINTABLE

Cheap and easy to integrate in existing manufactures due to the absence of electronics in tag



SCALABLE

Unique IDs available in a range of 64 bits



SECURE

Patented technology and designs



REDUCE COSTS

Tagging costs reduced ten-fold



INTEGRATION

Integration into Transport Units much facilitated



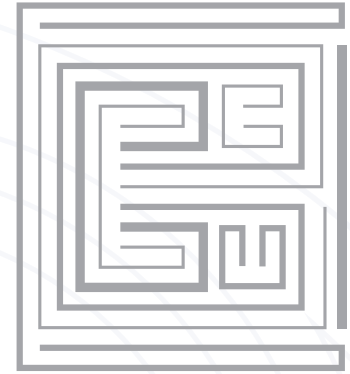
NEW USE CASES

Opens new use cases for products with low added value



DESCRIPTION

The Ambrosus Printed Secure Unique ID Tag was developed and patented to give the possibility to manufacturers to tag previously untaggable products, because it was too expensive and required steps that were hard to implement in existing supply chains. The technology has shown that it is possible to exclude any electronics from tags and with them all pick-and-place steps and glues, and print electromagnetic resonators in only one layer and encode up to 64 bits. Different substrates can be used or the tags can be directly printed on packages.



READER

To be able to understand what is encoded in the Ambrosus Printed Secure Unique ID Tag a new type of High Frequency reader is developed. This reader will be easily integrable in existing production lines without modifications, just by adding a stand-alone casing and a deported antenna that will do all the work.

TECHNICAL DATA

Available unique tags	64 bits (18 quintillion or 18×10^{18})
Manufacturing	Conductive Ink printing
Available formats	Tags and seals
Materials	Metallic Conductive Inks, and in the future Conductive Polymers (Eco-friendly)
Substrates	Paper or PET, PVC, etc.
Price	10 times cheaper than usual RFIDs
Size	Approximately 50 x 50 mm
Thickness	1 layer of printed ink
Frequency range	800 MHz - 3 GHz

All specifications are subject to modification without notice
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