COMPANY PROFILE

BLOCKTAC

Hardware devices to protect IoT platforms datasets from cyberattacks

Barcelona, Spain
Established in **2018**

Blockchain of Things Devices

The company

BlockTac commercializes authentication and anti-counterfeit solutions based on Blockchain. Our “certificates” and “digital seals” are applied to Fast-Moving Consumer Goods, idCards, professional and academic accreditations, artworks and medical records and online voting.

We also produce a family of autonomous hardware devices that communicate directly with IoT sensors or machines, encrypt the data captured by those devices, and store the hashes in a public. The data from those IoT devices become trusted and traceable, impossible to change, truly linked to its source. We name these edge computing equipment “Blockchain-of-Things” devices.

Meet the team

Francisco J. Guillén
CEO

Maiol Valentí
CTO

Marta Romero
COO

Enrique Lizaso
R&D

The Prototype

Blockchain of Things Devices

BlockTac has developed Controllers (SBC) that collect information directly from IoT sensSingle Board ors or machines, encrypt the data, and store it in a public Blockchain. The information now becomes trusted and traceable, impossible to change, truly linked to its source. Privacy is fully protected, and potential scammers are immediately identified. We name these edge computers “Blockchain-of-Things” devices. This approach makes it impossible for third parties to amend or impersonate the real producers of the data, therefore protecting the training of AI systems, and reducing energy consumption. Our competitive advantage is unique and based on the high computing power, low size, and cost of the SBCs, with full compatibility and functionalities.

To further increase the security of our IoT devices, we have implemented a decentralized Key Management System (KMS) also based on Blockchain technology. The goal is to store key sensitive data in a decentralized and encrypted manner outside the device.

Our software may be used by third-party IoT platforms or SBC developers and is easily deployed through the use of Docker and Kubernetes.

This solution will protect IoT platforms and AI systems against data poisoning from cyberattacks. It may be applied in many industries: Automotive, Energy, Healthcare, Smart manufacturing, Smart Retail, Smart Buildings, Smart Homes, and Smart Cities.

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