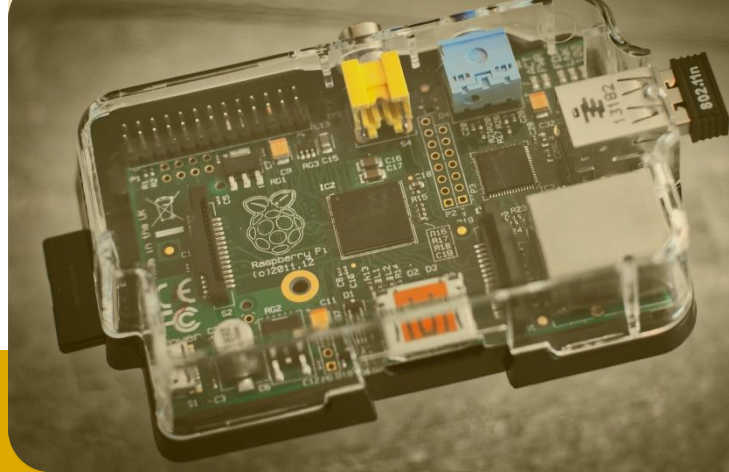


TRUST IoT [©]

SECURE IoT NETWORK

ENSURE DATA INTEGRITY



TRUST IoT is a Secure Element to plug

on connected object ensuring trustable Chip-to-Server Data Transmission



IoT Device
Identification



Collected Data
Encryption



Easy
Integration



Optional RF-
Interface



Support for
product integration

TRUST IoT is a micro-controller ensuring **secure data transmission** and **object secure authentication** from object to server or cloud services.

Plugged to IoT device processor, TRUST IoT chip technology permits in a **single command** to get an encrypted message called Crypto-ID allowing server to:

- Authenticate the Object
- Trust Data collected on the field
- Verify message Uniqueness

MAIN FEATURES

- Communication Protocols:
 - ISO/IEC 7816-3 | T=0
 - ISO/IEC 14443-A | T=CL
- Encryption based on **AES-128** cryptography
- Transmit **up to 128 bytes** of collected data
- **MCU access conditions** (External Authenticate)
- **MSE**: Key storage and Key management
- **Dynamically computed** Crypto-ID
- Up to EAL5+ high Common Criteria HW

MAIN ADVANTAGES

- **Enrol** Device securely
- **Identify** connected objects
- **Trust** Data collected from the field
- A **single command** for:
 - Secure authentication
 - Data encryption
- **Easy-to-integrate** on IoT device
- End-to-End **Security from chip to server**
- Direct interaction with **RF-Interface**

FUNCTIONAL DIAGRAM

