

CYPRESS SECURE DEVICE MANAGEMENT FOR THE INTERNET OF THINGS

The Internet of Things (IoT) and its exponential growth exposes connected devices to cyber threats. To protect privacy and keep users safe from physical harm, security must be implemented throughout the lifecycle of your IoT product.

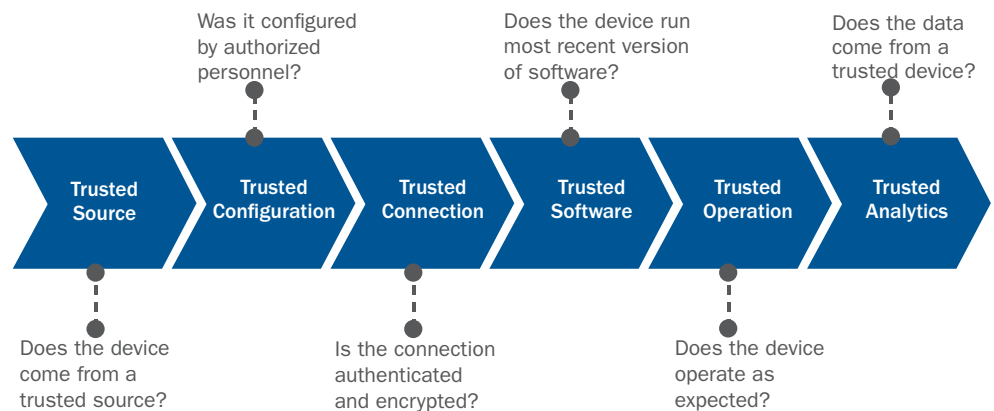
Cypress and Arm have partnered to implement a scalable, easy-to-use, cost-effective, and secure “device-to-cloud” solution, incorporating secure hardware, secure provisioning, and secure device management.



CAN YOU TRUST YOUR DATA?

There are many points from source to consumption where data can be compromised.

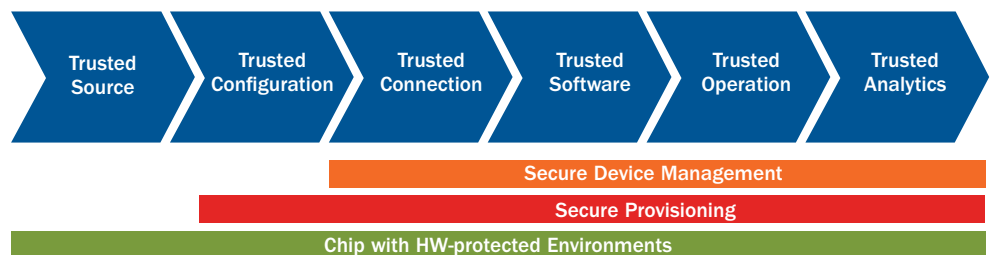
Have you implemented the right security to trust your data?



TRUSTED DATA STARTS WITH A TRUSTED DEVICE

Trusted data starts with a securely provisioned device that safeguards data through protected execution & data storage.

Secure device management can securely manage and update all devices and protect data throughout the product's lifecycle.



● Pre-emptive ● Predictive ● Adaptive ● Real-Time

arm

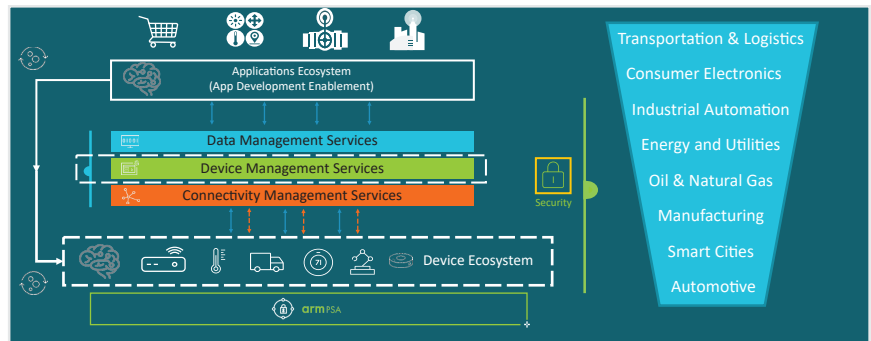
www.arm.com

CYPRESS
EMBEDDED IN TOMORROW™

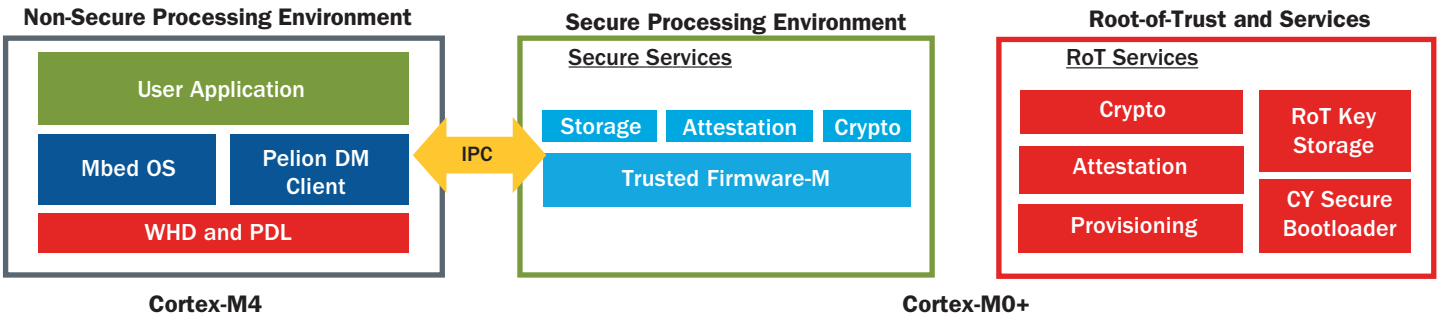
www.cypress.com

arm PELION DEVICE MANAGEMENT

- One simple portal interface to manage millions of IoT devices at scale
- Secure identity onboarding and lifecycle management services for all IoT devices
- Built-in security from device-to-cloud
- Pelion Edge for gateways managing non-IP and legacy devices
- Support for any device, any vendor, and any cloud (public, private, on-premise)



PSoC 64 SECURE MICROCONTROLLERS



Develop your user application on the Arm® Cortex® -M4 processor in PSoC 64. The Pelion device management client allows you to quickly integrate device management services on your embedded device.

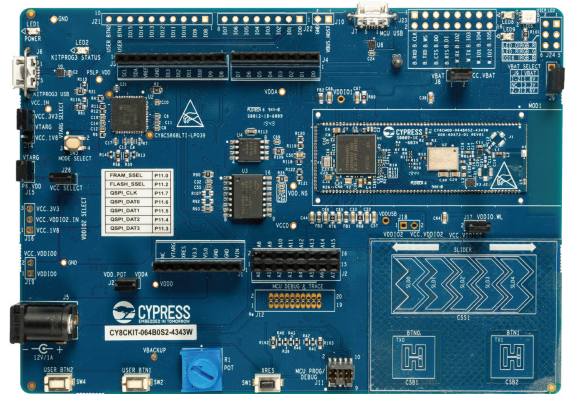
On the Cortex-M0+, an isolated secure processing environment is established supporting Trusted Firmware –M (TF-M) and secure services.

The root-of-trust is an immutable, unclonable identity. It securely stores keys and performs security services such as secure boot, secure provisioning, and attestation.

■ Cypress
 ■ TrustedFirmware.org
 ■ Arm
 ■ OEM

PSoC 64 DEVELOPMENT KIT

- PSoC 64 secure MCU with 2MB Flash/1MB SRAM
- Murata Type 1DX module based on Cypress' CYW4343W (2.4GHz Wi-Fi / Bluetooth combo)
- 512-Mbit external Quad-SPI NOR flash
- CapSense® capacitive sensing buttons and slider
- On-board programmer/debugger
- Arduino Uno expansion headers



CY8CKIT-064B0S2-4343W



GET STARTED NOW

FOR MORE INFORMATION: www.cypress.com/psoc64
www.arm.com/pelion

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