



TA101 TrustMANAGER and TrustFLEX

Robust, Host Agnostic Secure Key Storage and Authentication for Industrial, Automotive, Medical and IoT Systems

Summary

The TA101 Trust Anchor is our most customizable, certified and cryptographically robust secure authentication IC that you can pair with any microcontroller (MCU) or microprocessor (MPU). This product has multiple security certifications and qualifications, including automotive Grade 1 temperature range and automotive AEC-Q100 qualifications, so it can be used in more highly regulated industries such as automotive.

Now, through the TrustFLEX and TrustMANAGER offerings, the TA101 is supported by predefined use cases, provisioning flows and scalable security services to help you meet the requirements of emerging standards and regulations, including but not limited to the EU Cyber Resilience Act and ISA/IEC 62443.

This combination of robust hardware and flexible provisioning services is well-suited for accelerating development in:

- Industrial automation
- Software Defined Vehicle (SDV) architectures
- IoT infrastructure
- EV ecosystem and charging security
- Connected medical equipment

With TA101 providing strong cryptographic capability and hardware qualifications, and TrustFLEX/TrustMANAGER enabling secure provisioning and cloud connectivity, you can get to market faster with confidence.

TrustFLEX: Simplified, in Factory Security

- Microchip in-factory provisioning
- Predefined use-case architectures for rapid deployment
- Hardware configurator for easy prototyping and production
- Works well with existing secure cloud infrastructure

TrustMANAGER: Cloud Backed, in Field Provisioning

- In-field provisioning with turnkey managed infrastructure
- PKI generation via Kudelski IoT keySTREAM or customer root CA
- Remote configuration, lifecycle credential management, code signing and secure firmware updates
- Best-suited for avoiding the burden of building and maintaining your own managed IoT security infrastructure

Get Started

Recommended evaluation setup:

- EV89U05A CryptoAuth Pro Trust Platform
- TA101 8-pin SOIC socket board
- WINCS02 Wi-Fi® add on or ethernet connection
- TPDS software
- keySTREAM account
- TA101 prototype silicon
 - TA101T-TFLXTLSS-PROTO (I²C)
 - TA101-TFLXTLSS-PROTO (SPI)
 - TA101T-TMNGTLSS (I²C)
 - TA101-TMNGTLSS (SPI)