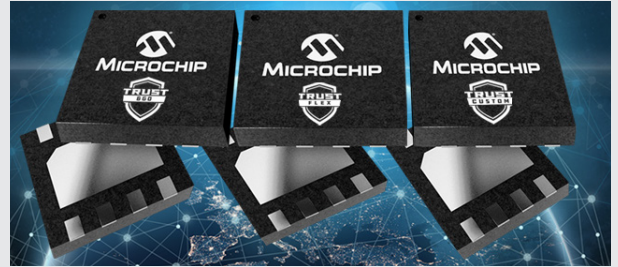


Microchip Trust Platform

Leverage Microchip Secure Manufacturing Infrastructure to Securely Provision Credentials in Your Products

Summary

For deployments of as few as ten units to up to many thousands of devices, the Trust Platform is a cost-effective and flexible solution for onboarding Microchip Secure Elements in your design and accelerating your product's time to market. The Trust Platform is composed of a family of pre-provisioned, pre-configured or fully customizable secure elements. Credentials are generated inside each secure element's boundary by leveraging Microchip Hardware Secure Modules (HSMs) installed in our factories. The devices also come with hardware and software development tools to make prototyping easy and to fast track your development. The Trust Platform offers three tiers of secure elements — Trust&GO, TrustFLEX and TrustCUSTOM — to provide you with the options and flexibility to meet the requirements of your company's security model.



- Pre-configured and pre-provisioned Devices
- Includes Keys and Generic Certificates for thumbprint authentication
- 10 units Minimum Order Quantity including provisioning
- Full stack code examples available



- Pre-configured and pre-provisioned Devices
- Upgrade default credential to use your own certificate chain
- 2,000 units Minimum Order Quantity including provisioning
- Most commonly use cases available



- Blank devices
- Fully customizable device
- 4,000 units Minimum Order Quantity including provisioning
- Full datasheet and configuration tool available under NDA

Key Highlights

- Easier Embedded Security on-boarding with pre-defined Configurations and Provisioning
- Trust&GO for TLS networks
 - AWS IoT and Greengrass leveraging "Multi Accounts Registration"
 - Google Cloud Platform leveraging "Token authentication"
 - Third-party TLS authentication
- Trust&GO for LoRaWAN networks
 - The Things Industry (TTI) Join Server
 - Actility join server
- Easier Embedded Security on-boarding with pre-defined Configurations and Provisioning with Trust&GO
 - Any cloud, any PKI, any certificate authority
 - Certificate-based/Token authentication
- Firmware verification/OTA validation/secure boot verification
- Firmware IP protection
- Message encryption
- I/O protection key
- Accessory authentication
- Key rotation
- Fitted for mass market with low MoQ including provisioning and Microchip certificates
- Architecture agnostic any controller, any connectivity
- Quick development with simple toolset with the Trust Platform Design Suite (use case selector, Python-based notebook, C-code, configurator for secret exchange)

Development Tools

- **Trust Platform Design Suite** – free of charge – software tool helping to select the desired pre-defined use case(s), test your secure element setup leveraging python executable tutorials, accelerate your embedded prototype with the C code examples and be autonomous during secret exchange)
- **Trust Platform USB Kit (DM320119)** – \$13 each – base development kit with USB port integrating the ATECC608A Trust&GO, TrustFLEX and TrustCUSTOM
- **ATECC608A Trust Kit (DT100104)** – \$14 each – add-on development board to the DM320118 to benefit from additional ATECC608A Trust Platform devices soldered on a PCB.
- From mikroe.com: **Secure uDFN click (MiKROE-3746)** – socketed based extension board to the DM320118 to scale up your testing capabilities with the ATECC608A Trust Platform.

Trust&GO	Description
ATECC608A-TNGTLSS-B	Trust&GO TLS, Provisioned Proto Typing, 8-SOIC, I2C, (10 bulk)
ATECC608A-TNGTLSU-B	Trust&GO TLS, Provisioned Proto Typing, 8-UDFN, I2C, (10 bulk)
ATECC608A-TNGTLSS-C	Trust&GO TLS, Provisioned, 8-SOIC, I2C, (100 unit multiple)
ATECC608A-TNGTLSU-C	Trust&GO TLS, Provisioned, 8-UDFN, I2C, (100 unit multiple)
ATECC608A-TNGTLSS-G	Trust&GO TLS, Provisioned, 8-SOIC, I2C, 2K multiple
ATECC608A-TNGTLSU-G	Trust&GO TLS, Provisioned, 8-UDFN, I2C, 2K multiple
TrustFLEX	Description
ATECC608A-TFLXTLSS-Proto	TrustFLEX TLS, Provisioned Proto Typing, 8-SOIC (10 bulk)
ATECC608A-TFLXTLSU-Proto	TrustFLEX TLS, Provisioned Proto Typing, 8-UDFN, I2C, (10 bulk)
ATECC608A-TFLXTLSS	TrustFLEX TLS, Provisioned, 8-SOIC 2K MOQ
ATECC608A-TFLXTLSU	TrustFLEX TLS, Provisioned, 8-UDFN 2K MOQ
TrustCUSTOM	Description
ATECC608A-TCSMS	TrustCUSTOM, Provisioned, 8-SOIC, 4K MOQ
ATECC608A-TCSMU	TrustCUSTOM, Provisioned, 8-UDFN 4K MOQ
Trust&GO for The Things Industries	Description
ATECC608A-TNGLORAS-B	Trust&GO LORAWAN, Provisioned Proto Typing, 8-SOIC, I2C, (10 bulk)
ATECC608A-TNGLORAU-B	Trust&GO LORAWAN, Provisioned Proto Typing, 8-UDFN, I2C, (10 bulk)
ATECC608A-TNGLORAS-C	Trust&GO LORAWAN, Provisioned, 8-SOIC, I2C, (100 unit multiple)
ATECC608A-TNGLORAU-C	Trust&GO LORAWAN, Provisioned, 8-UDFN, I2C, (100 unit multiple)
ATECC608A-TNGLORAS-G	Trust&GO LORAWAN, Provisioned, 8-SOIC, I2C, 2K multiple
ATECC608A-TNGLORAU-G	Trust&GO LORAWAN, Provisioned, 8-UDFN, I2C, 2K multiple
TrustFLEX for LoRaWAN	Description
ATECC608A-TFLXLORAS-Proto	TrustFLEX LORAWAN, Provisioned Proto Typing, 8-SOIC (10 bulk)
ATECC608A-TFLXLORAU-Proto	TrustFLEX LORAWAN, Provisioned Proto Typing, 8-UDFN, I2C, (10 bulk)
ATECC608A-TFLXLORAS	TrustFLEX LORAWAN, Provisioned, 8-SOIC 2K MOQ
ATECC608A-TFLXLORAU	TrustFLEX LORAWAN, Provisioned, 8-UDFN 2K MOQ
Trust&GO for Activity	Description
ATECC608A-TNGACTS-B	Trust&GO Activity LORAWAN, Provisioned Proto Typing, 8-SOIC, I2C, (10 bulk)
ATECC608A-TNGACTU-B	Trust&GO Activity LORAWAN, Provisioned Proto Typing, 8-UDFN, I2C, (10 bulk)
ATECC608A-TNGACTS-C	Trust&GO Activity LORAWAN, Provisioned, 8-SOIC, I2C, (100 unit multiple)
ATECC608A-TNGACTU-C	Trust&GO Activity LORAWAN, Provisioned, 8-UDFN, I2C, (100 unit multiple)
ATECC608A-TNGACTS-G	Trust&GO Activity LORAWAN, Provisioned, 8-SOIC, I2C, 2K multiple
ATECC608A-TNGACTU-G	Trust&GO Activity LORAWAN, Provisioned, 8-UDFN, I2C, 2K multiple
Trust Flex Activity	Description
ATECC608A-TFLXACTS-Proto	TrustFLEX Activity LoraWan, Provisioned Proto Typing, 8-SOIC (10 bulk)
ATECC608A-TFLXACTU-Proto	TrustFLEX Activity LORAWAN, Provisioned Proto Typing, 8-UDFN, I2C, (10 bulk)
ATECC608A-TFLXACTS	TrustFLEX Activity LORAWAN, Provisioned, 8-SOIC 2K MOQ
ATECC608A-TFLXACTU	TrustFLEX Activity LORAWAN, Provisioned, 8-UDFN 2K MOQ