

## Components – EMEA

### Security use case – TrustRAM

# Application Using TrustRAM and TrustZone on SAML11

This application demonstrates the enhancing security features on the SAML11 microcontrollers for security, which are Trusted RAM and TrustZone.



#### TrustZone

TrustZone provides the flexibility for hardware isolation of memories and peripherals, therefore reinforcing the ability of Intellectual Properties (IP) and Data protection. SAML11 provides up to six regions for the Flash, up to two regions for Data Flash, up to two regions for SRAM and the ability to assign peripherals, I/O pins, interrupts to secure or non-secure application.

For more information please visit:

[Github link](#)

#### TrustRAM

Trusted RAM implements 256 bytes of secure memory with address and data scrambling by user-defined key. Trusted RAM is also equipped with chip-level tamper detection and rapid tamper erase to resist micro-probing attacks.

#### Block Diagram



