Enhanced security for LoRaWAN module





Murata and Trusted Objects are partnering to enhance security on LoRaWAN modules subject to logical and physical threats





Murata Type ABZ module CMWX1ZZABZ

Secure software library
Root of trust

TO-Protect on Murata module

- Easy integration, 100% software
- Compatibility with existing hardware
- Reduced code size
- Limited impact on MCU performances
- STM32 stack pre-modified for TO-Protect

TO-Protect key features

- Security & cryptography: mutual authentication, integrity protection and confidentiality
- Secure connectivity:
 LoRaWAN frame assembly and disassembly, frame counter secure management
- Secure storage: keys, counters

https://www.murata.com

https://www.trusted-objects.com

Enhanced security for LoRaWAN module

TO-Protect evaluation LoRa Discovery kit from STM Board B-L072Z-LRWAN1

- Murata module CMWX1ZZABZ
- Microcontroller STM32L072CZ Cortex M0+
- LoRaWAN transceiver SX1276
- STM32 stack pre-modified for TO-Protect
- Trusted Objects library (abstracting software Secure Element interface)
- TO-Protect software library in binary



Easy integration into the IoT chain of trust



Available now!

- Demonstration
- Application note
- TO-Protect evaluation library
- TO-Protect library for production: Technology Access License (TAL)
- OTA provisioning: library programming with personalization page



