Trusted Objects TS Defender secure software solution is now available on Murata LoRaWAN™ module

Trusted Objects, a specialist in security for the Internet of Things, is proud to announce that its TS Defender secure software solution is now available on the Murata LoRaWAN™ module, making it easy for IoT application developers to implement enhanced security measures in their products.

AIX EN PROVENCE, FRANCE, February 25, 2019 – Trusted Objects TS Defender LoRaWAN, a secure software library for generic MCU that provides enhanced security on LoRaWAN nodes is now available for the Murata module referenced CMWX1ZZABZ-078. IoT application developers can easily assess the solution using the evaluation kit B-L072Z-LRWAN1 equipped with this small form factor module.

TS Defender LoRaWAN is a 100% software solution that implements secure element functionalities with state-of-the art software countermeasures against the most common physical attacks on LoRaWAN nodes at no additional hardware cost.

Trusted Objects TS Defender provides advanced protection against most massive and selective physical attacks on LoRaWAN nodes. It consists in a C language library that can easily be implemented into any host IC (like MCU or RF SoC) and provides the same functionalities as a hardware based secure element. TS Defender allows to implement security protocols with connectivity features, including secure key storage, while remaining compatible with the standard LoRaWAN software stack.

Trusted Objects TS Defender has been the object of a security assessment by Secure-IC, an expert in trusted computing security technologies for embedded systems. This security evaluation has shown that with TS Defender LoRaWAN a side-channel attack based on the electromagnetism emanation of the chip was ineffective even with more than 10,000 traces while the same attack was able to obtain the key with just 250 traces when the standard LoRaWAN security stack was used.

Samir Hennaoui, Product Manager for LPWA Wireless Modules at Murata declares: "We are happy with our partnership with Trusted Objects as the integration of their TS Defender LoRaWAN with our LoRaWAN module provides a means for application developers to implement a better level of security than the standard LoRaWAN security stack, while not increasing the BOM of their product."

Sami Anbouba, CEO of Trusted Objects, adds: "With the addition of Trusted Objects TS Defender LoRaWAN in Murata module, many developers will be able to experience the high level of protection against physical attacks provided by our library combined with the easiness of its implementation."

TS Defender LoRaWAN can be integrated in Murata LoRaWAN module through a licensing model from Trusted Objects.

MWC19™
GSMA Barcelona
25-28 February 2019

Trusted Objects will be present during the Mobile World Congress, held in Barcelona, Spain, on February 25-28, 2019, and available to provide additional information about its security solutions. Feel free to give us a call to set up a meeting.

About Trusted Objects

Trusted Objects is a leading independent player in the Secure IoT market, providing innovative solutions including software and embedded firmware, to dramatically enhance the security of connected devices. Trusted Objects solutions are fully optimized, certified and are positioned as the root of trust to meet the end-to-end security needs of the IoT.

Trusted Objects also delivers a set of services and systems including security assessment, personalization engine, keys and certificates management, fast prototyping to accelerate the deployment of comprehensive solutions that meet the highest security requirements.

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