

LoRaWAN® Application Protocols v1.0.0

The STACKFORCE LoRaWAN® Application Protocols are an advanced collection of modules built to enhance the functionality of the LoRaWAN® protocol. Its primary focus is on enabling **Firmware Update Over The Air** (FUOTA) capabilities, ensuring seamless and efficient updates for LoRaWAN® devices.

KEY FEATURES



Stack-independent, industrialized library for LoRaWAN® FUOTA – e.g. usable with LoRaMac-node



The APL module unifies 3 core modules, enabling the FUOTA process to be executed through a single interface



Extensive Documentation for seamless integration and optimal product utilization



Support of one fragmentation session at a time

MEMORY REQUIREMENTS

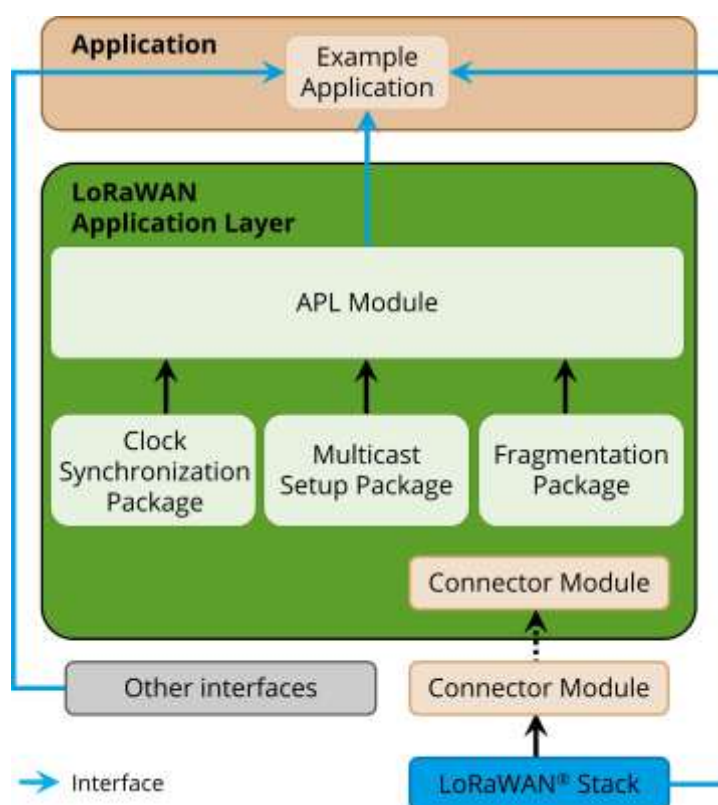
	Size
Flash	~ 6 kB
RAM	~ 600 B

* Values based on Cortex-M4. The actual footprint may vary considerably depending on the configuration of the FUOTA session.

TECHNICAL SPECIFICATIONS

- TS003-1.0.0: LoRaWAN® Application Layer Clock Synchronization
- TS004-1.0.0: LoRaWAN® Fragmented Data Block Transport
- TS005-1.0.0: LoRaWAN® Remote Multicast Setup

ARCHITECTURE DESIGN



REFERENCE HARDWARE

Cortex-M4