

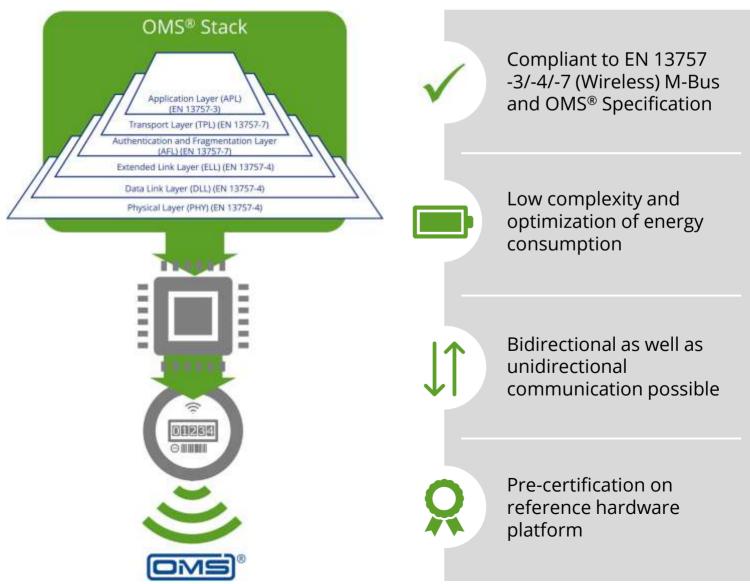
OMS[®] v4.5.1 / wM-BUS FOR END DEVICES

The OMS[®] Stack for End Devices is the proven software solution for metering applications from our product portfolio and comes with some enhanced features in OMS[®] version 4.5.1.

The stack implements all the protocol elements required for Wireless M-Bus compliance and covers a large part of the options and features specified in EN 13757 and its sub-standards, with a focus on the most commonly used options and features.

This single stack is optimized for a compromise between small footprint, excellent modularity and scalability, but still rich in features.

With the OMS[®] v4.5.1 Stack, you can be sure to equip your products with a proven and constantly evolving software solution.



SUPPORTED SPECIFICATIONS

Compliant according

- EN 13757-3/-4/-7
- OMS[®] Specification

STACK FEATURES

OMS® v4.5.1 / Wireless M-Bus

- Operation modes S, T or C
- Security profiles A or B (encryption modes 5 and 7)
- Security profile D (encryption mode 10)¹
- Annex C "Sensor" compatibility
- Enables application to support all use cases specified by Annex M "Requirements for OMS[®] use case support"
- Enables optimization of TRX timing¹

¹ Feature will be implemented in a later product version.

REFERENCE HARDWARE

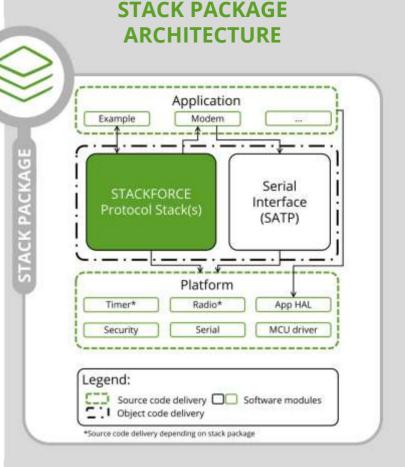
- CC13x0²
- EFR32FG23
- EFR32FG28
- NXP MCXN94 + NXP UBX100
- STM32WL3
- STM32WL5/STM32WLE5

² For this hardware the stack implements OMS[®] version 4.3.3

MEMORY REQUIREMENTS*

	Library	Applications, HAL, drivers, other software
Unidirectional		
Flash	~ 22,9 kB	~ 28 kB
RAM	~ 4,1 kB	~ 4,0 kB
Bidirectional		
Flash	~ 35,2 kB	~ 29,4 kB
RAM	~ 4,5 kB	~ 4,1 kB

* The code sizes described above specify the typical required memory for operating the full featured protocol stack as a library including related drivers. Values based on STM32WL5/WLE5.



YOUR BENEFITS



Optimization of energy consumption and usability of utilities (as e.g., CRC or AES) by application



On-the-fly configuration: Quick stack adaption to different use cases



Stack porting to your specific hardware



With a directly available OMS[®] v4.5.1 Standard Stack you shorten your time-tomarket significantly.



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