

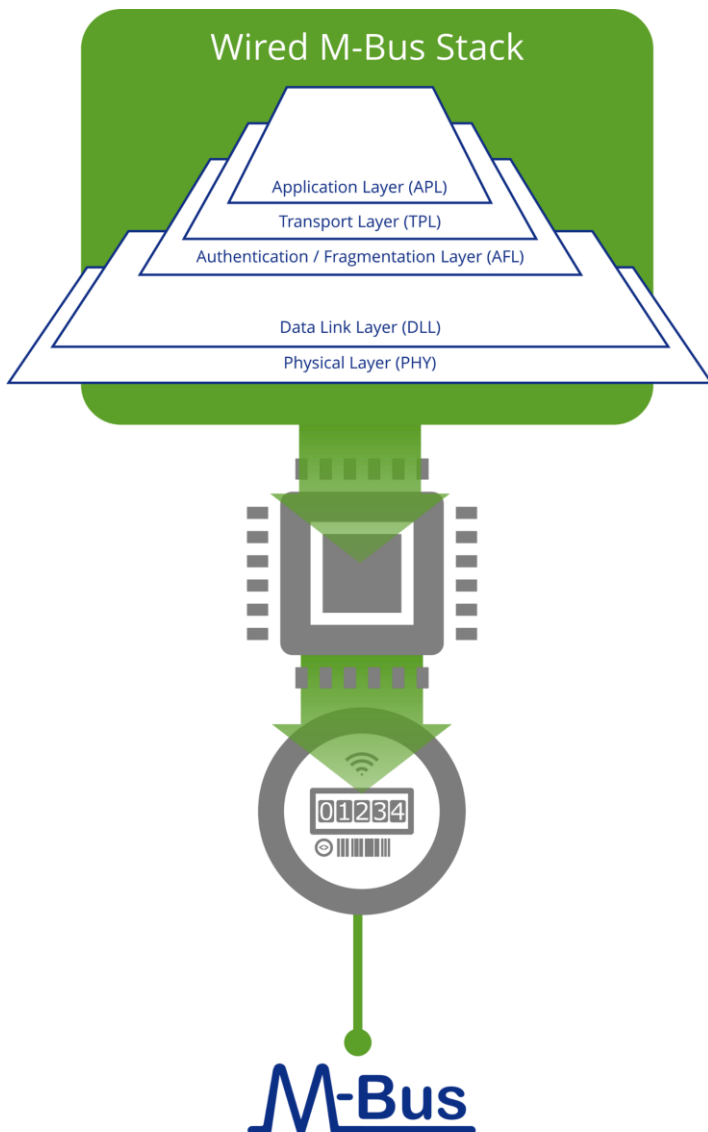
# WIRED M-BUS OMS<sup>®</sup> v4.5.1 FOR SLAVE DEVICES

The Wired M-Bus Protocol Stack for Slave Devices offers a powerful, wired solution for seamless data transmission to M-Bus networks.

Designed for applications such as consumption metering, it ensures reliable and efficient communication, making it an excellent choice for environments that demand consistent and secure data exchange.

With a straightforward master-slave communication model, implementation is remarkably simple, allowing for easy integration into existing systems.

Fully compliant with EN 13757-2/-3/-7 standards and supporting the OMS<sup>®</sup> Specification v4.5.1, the Wired M-Bus Protocol Stack meets the latest requirements for Wired M-Bus communication.



Compliant to EN 13757-2/-3/-7 (Wired) M-Bus and OMS<sup>®</sup> Specification



Enables remote readout of meter devices



Reliable and efficient data transmission for your M-Bus networks



Seamless integration with existing systems

## SUPPORTED SPECIFICATIONS

Compliant according

- EN 13757-2/-3/-7
- OMS® Specification

## STACK FEATURES

EN 13757-2/-3/-7 (Wired M-Bus) and OMS® Specification 4.5.1 compliant Protocol Stack for Slave devices:

- Interference-free data transmission via cable
- Supported message types TX (Slave - Master):
  - RSP-UD
  - ACK
- Supported message types RX (Master - Slave):
  - SND-UD
  - REQ-UD2
  - REQ-UD1
  - SND-NKE
- Slave addressing according to EN13757-7 (2018)
- Baud rate change by CI-Fields according to EN13757-3 (2018)

## REFERENCE HARDWARE

- STM32L0

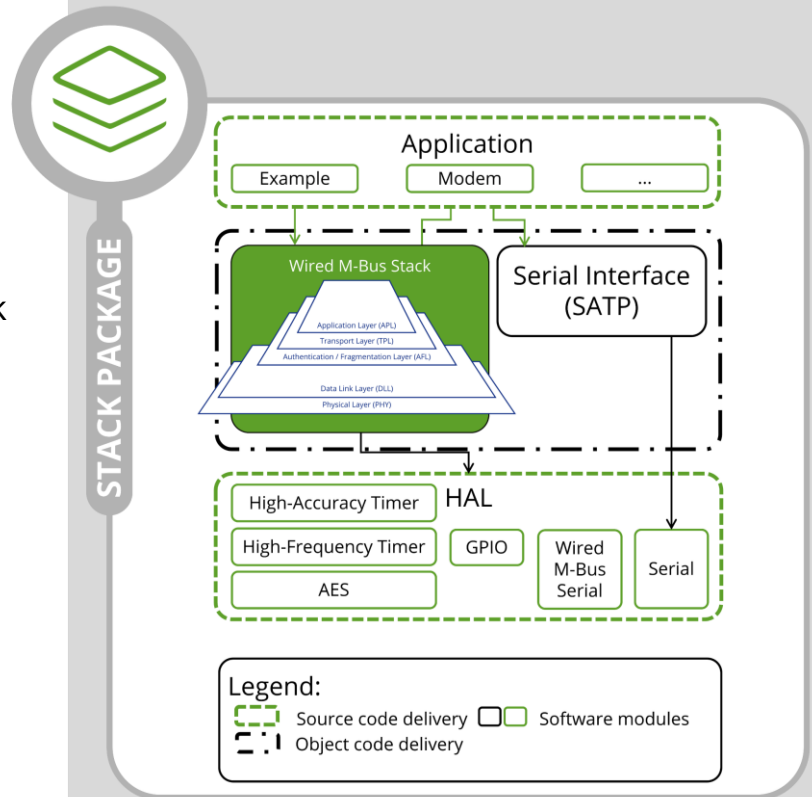
## STACK CHARACTERISTICS

Memory requirements\*

	Library	Slave applications, HAL, other components
<b>Flash</b>	~ 28,4 kB	~ 19,3 kB
<b>RAM</b>	~ 3,2 kB	~ 6,2 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 reference hardware.

## STACK PACKAGE ARCHITECTURE



## YOUR BENEFITS

- ✓ OMS® implementation of the Wired M-Bus stack is a great base for interoperable devices
- ✓ Support for use in conjunction with common embedded operating systems (OS), such as Free RTOS or OS-less (bare metal)
- ✓ Stack porting to your specific hardware
- ✓ Example application allowing an easy start-up of the stack