STACKFORCE
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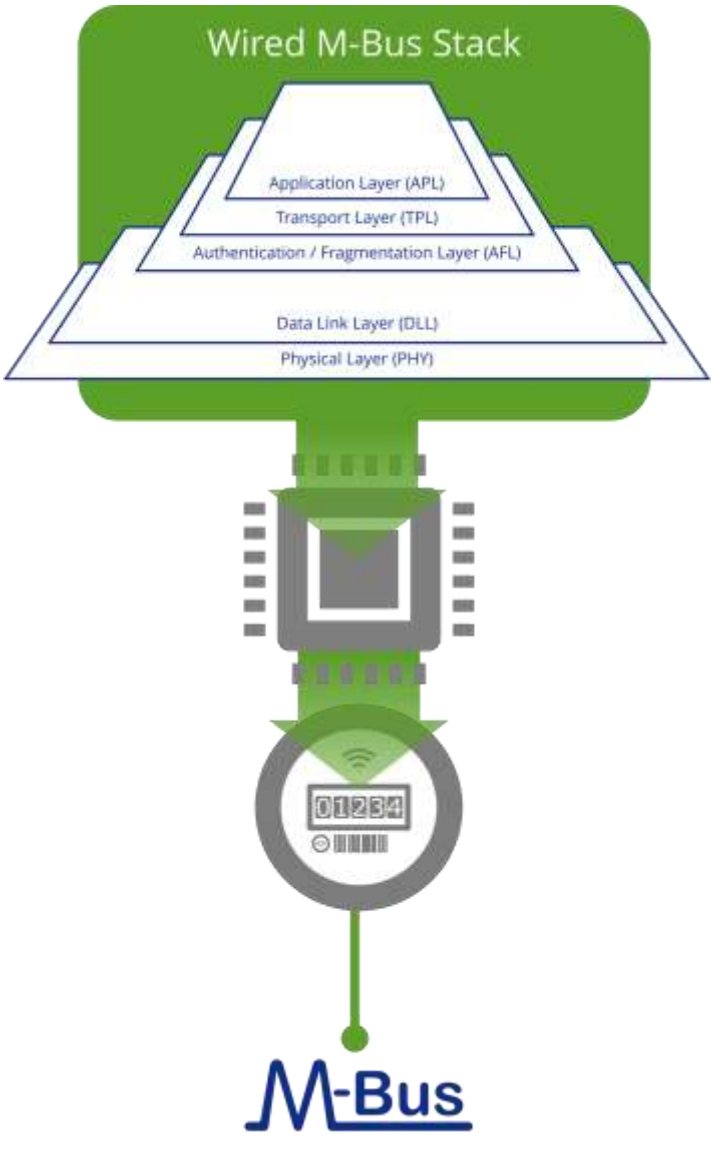
# WIRED M-BUS / OMS® v4.5.1 FOR MASTER DEVICES

The Wired M-Bus Protocol Stack for Master Devices is a robust and efficient solution for remote reading of slave devices within a Wired M-Bus network.

It enables data transmission from numerous meters and sensors and allows the device to manage a large number of connections simultaneously.

Ideal for settings where devices are installed relatively close to each other or where existing infrastructure can be leveraged, this protocol stack ensures seamless data transmission at a cost-effective setup.

The Wired M-Bus Protocol Stack for Master Devices is an implementation of the standards EN 13757-2/-3/-7, together with the OMS® specification 4.5.1, dedicated to specifying wired communication for M-Bus.




- Compliant to EN 13757 -2/-3/-7 (Wired) M-Bus and OMS® Specification
- Decryption of up to 20 slave 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 Master devices:

- Interference-free data transmission via cable
- Enables M-Bus communication over any serial interface:
  - Electrical EN13757-2 compliant
  - RS485
  - Basically, any electrical interface that can be connected to the serial interface of the respective microcontroller

### MASTER FEATURES

- Wired M-Bus telegram reception and transmission
- Device registration and supervision
- Send commands and data requests to the connected devices
- Decryption of up to 20 Slave devices

## REFERENCE HARDWARE

STM32L0

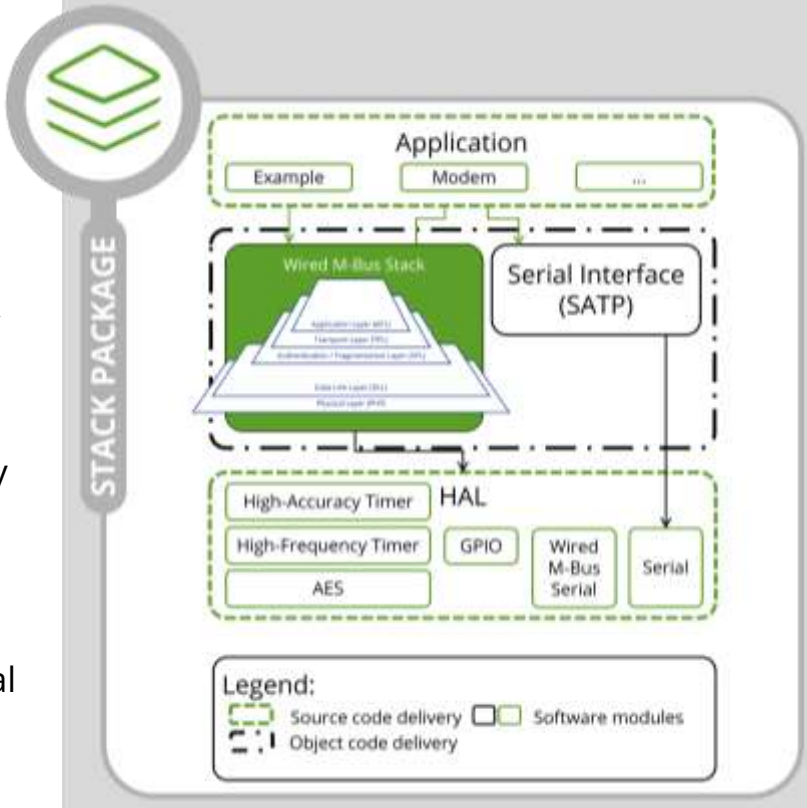
## STACK CHARACTERISTICS

Memory requirements*

| | Library | Master applications, HAL, other components |
|---|---|---|
| **Flash** | ~ 20 kB | ~ 31 kB |
| **RAM** | ~ 4 kB | ~ 2,5 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

- Enabling remote reading of Slave Devices in a Wired M-Bus network
- Example application allowing an easy start-up of the stack
- Professional support and long-term maintenance and availability
- With a directly available Wired M-Bus Standard Stack you shorten your time-to-market significantly