



# Automotive Math and Motor Control Library (AMMCLib)

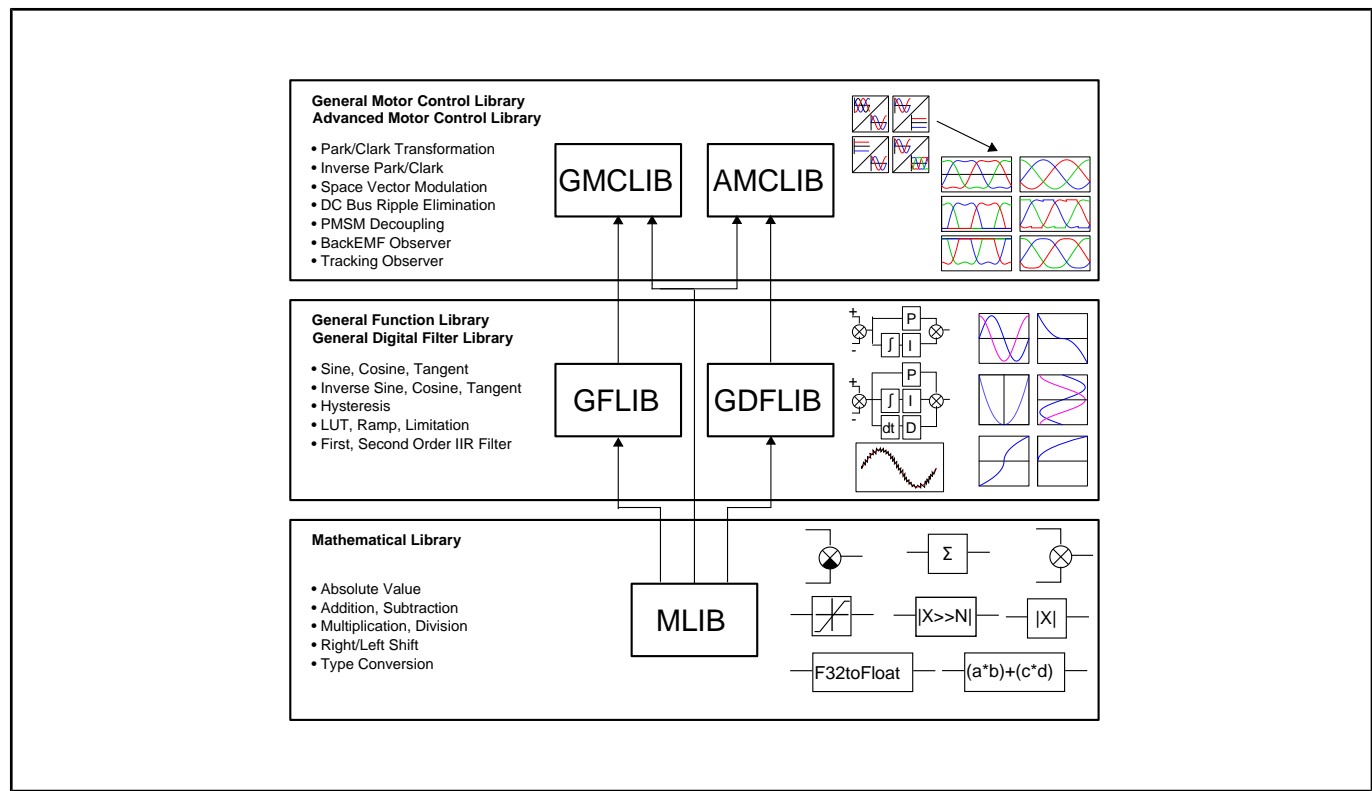
## AMMCLIB

Last Updated: May 20, 2025

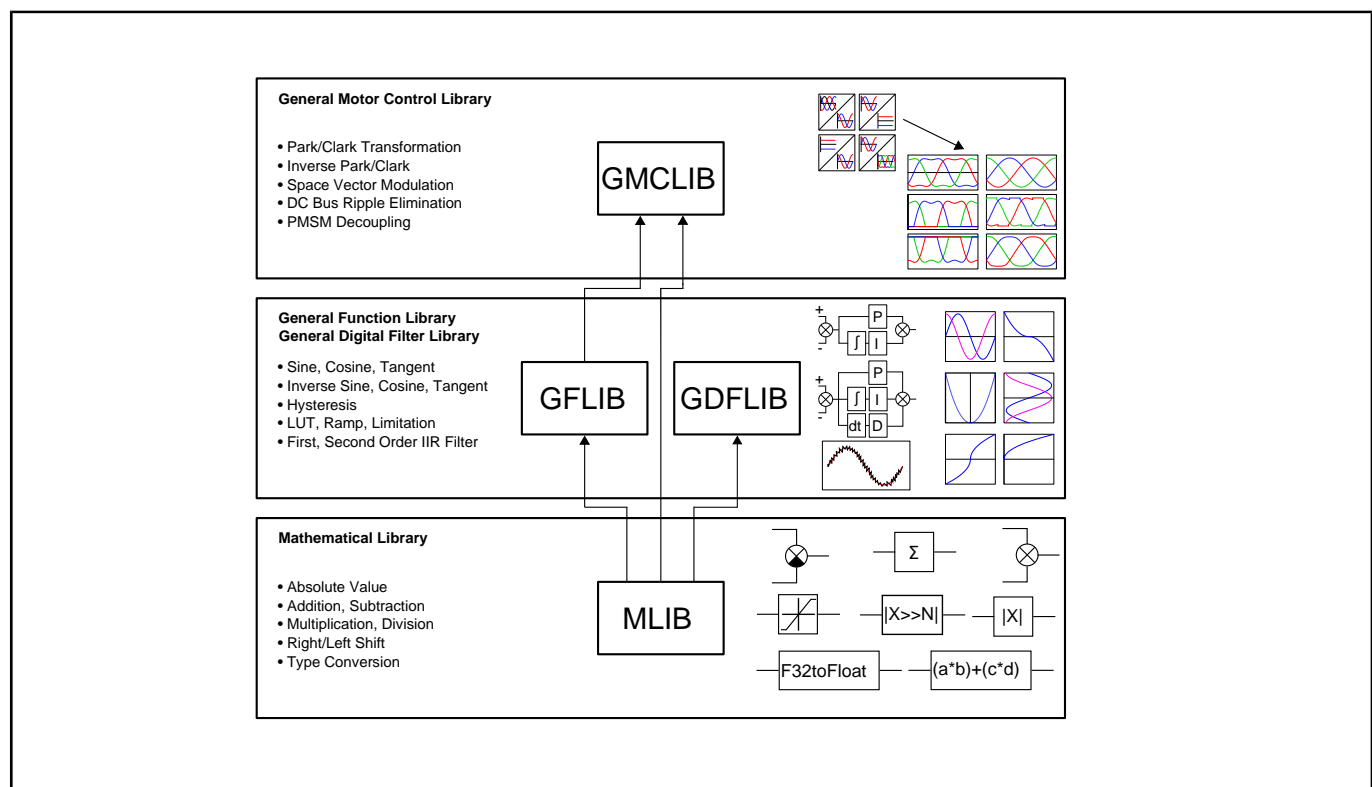
The Automotive Math and Motor Control Library (AMMCLib) set provides essential building blocks for rapid development of automotive embedded applications with high-performance arithmetic, trigonometric, digital signal processing and math functions. The AMMCLib is available as a production-ready precompiled or source code package.

A significant portion of the AMMCLib supports both sensor-based and sensorless motor control applications; it also assists with fixed-point fractional 16/32-bit and single-precision floating-point arithmetic. All AMMCLib functions come with MATLAB® and Simulink® bit-accurate models for model-based design, simulation and code generation supporting Embedded Coder®.

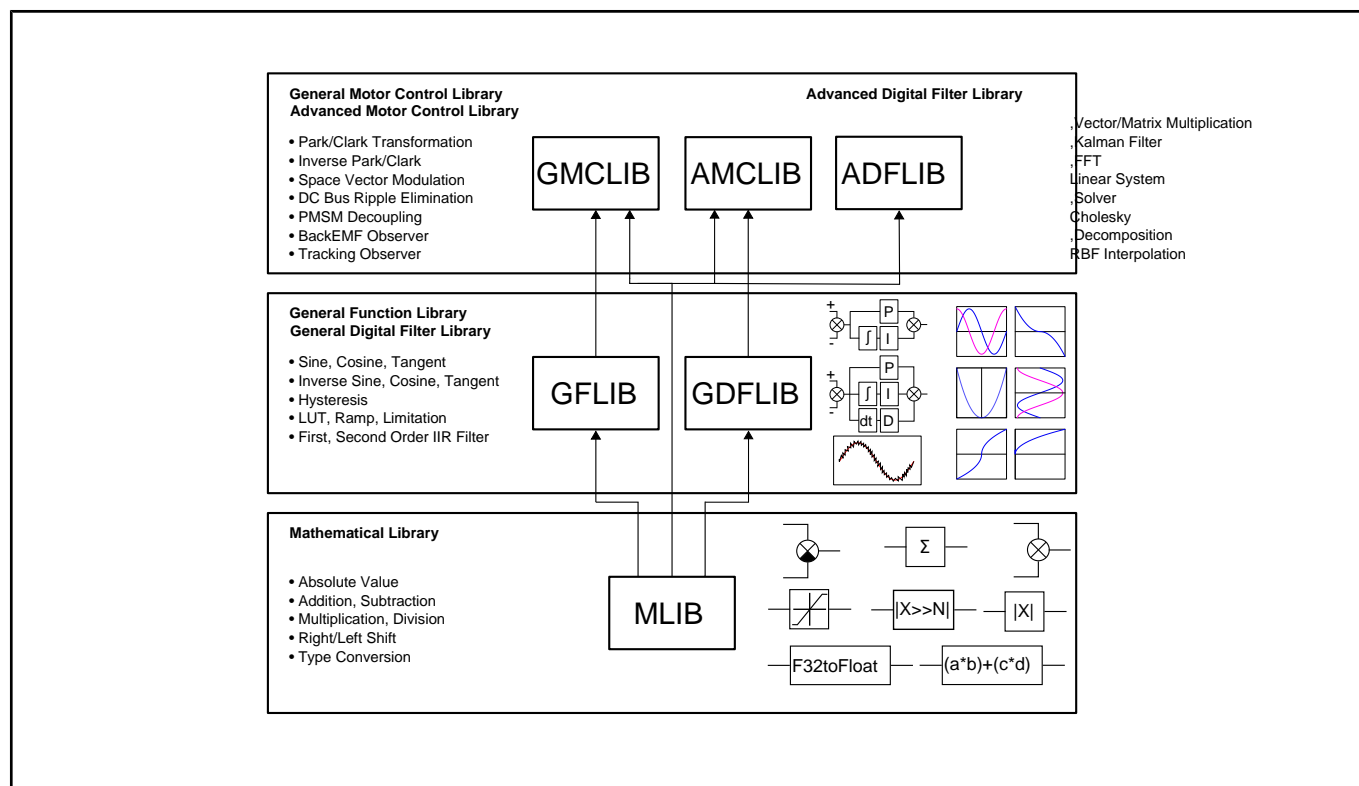
## Auto AMMCLIB General Architecture Block Diagram



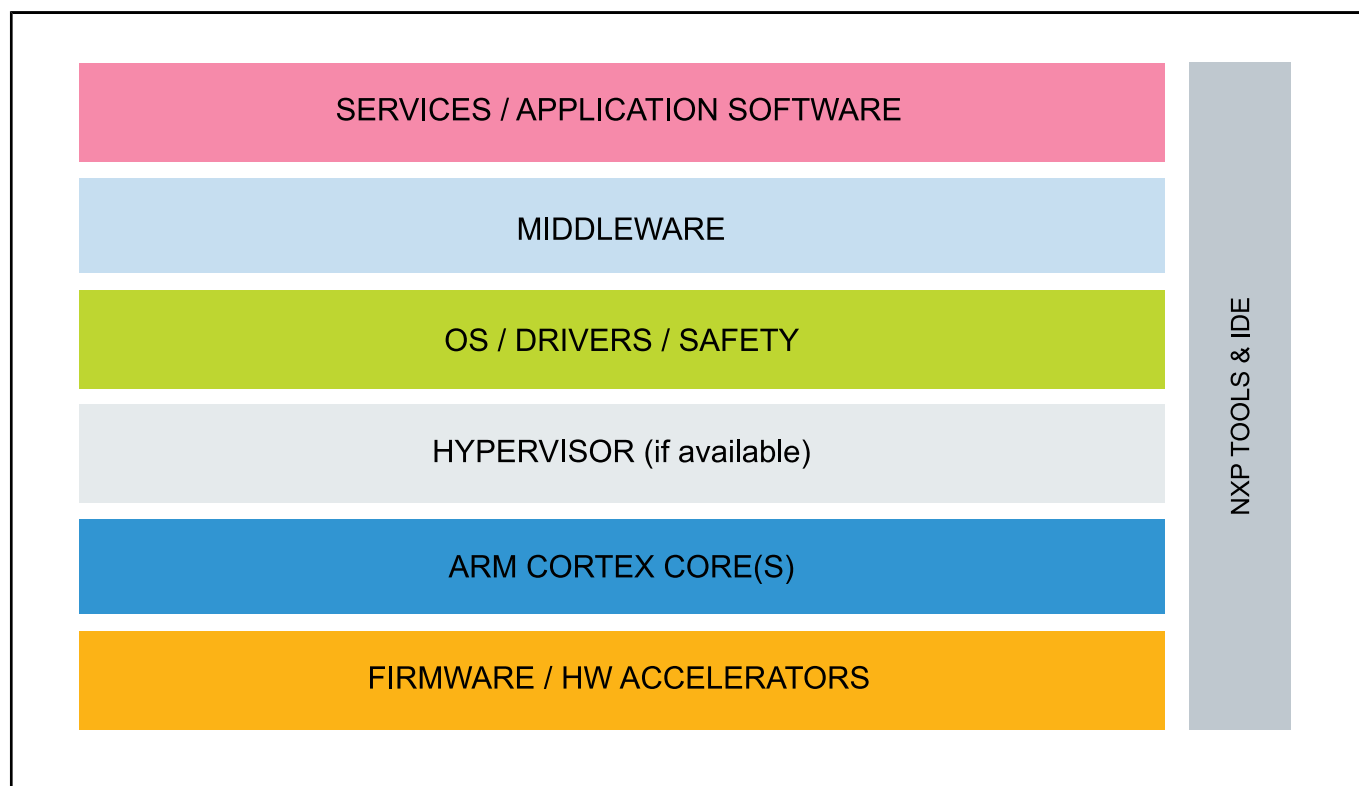
## Auto AMMCLIB Architecture for KEA Block Diagram



## Auto AMMCLIB Architecture for S32Z/E and S32V Block Diagram



## Automotive software General Block Diagram Block Diagram



View additional information for [Automotive Math and Motor Control Library \(AMMCLib\)](#).

**Note:** The information on this document is subject to change without notice.

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