

# Motion Control Library

Brings the power of Ingenia's motion controllers to high level C/C++ programming



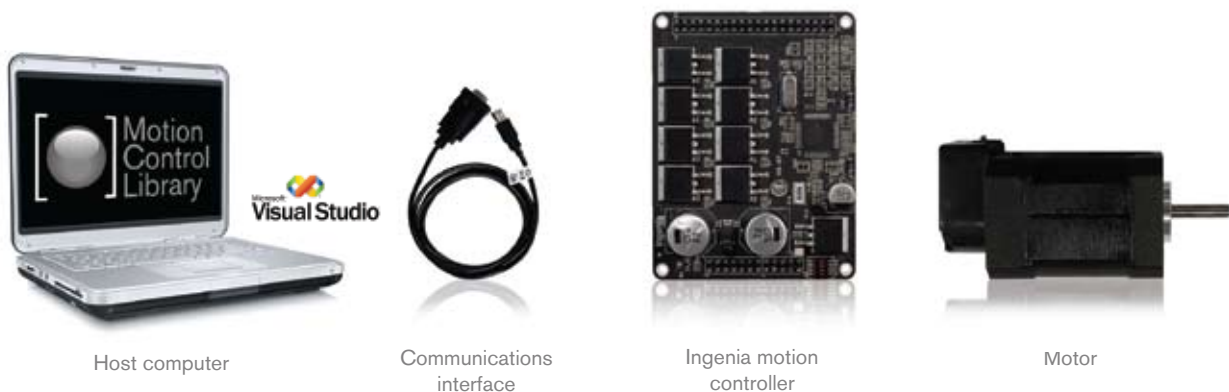
## Overview

Ingenia's motion controllers can be configured and operated using its registers. To do so, it is necessary to establish a communication channel with the device and use the desired registers. This configuration and operation process can be tedious due to the need to use low-level syntax, understand communication protocols, etc. In order to make these tasks easier, Ingenia has developed the Motion Control Library (MCLib).

MCLib brings together a range of functions and components, which provide an applications programming interface (API) in C/C++ for Ingenia motion controllers. It includes functions for managing communication with the motion controller, as well as for its configuration and operation.

The MCLib comes with CAN communications libraries for the main manufacturers of these devices, and a WINAPI based RS232 communications library.

As a result, MCLib frees programmers from register programming and protocol management work, leaving them free to concentrate on developing the final application.



Host computer

Communications interface

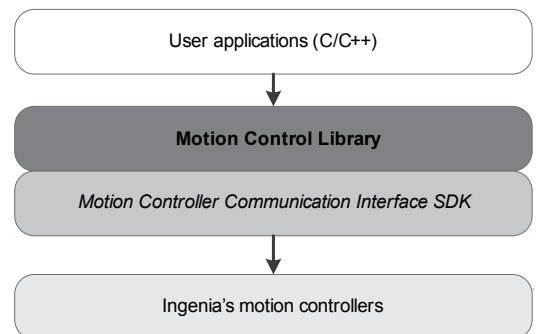
Ingenia motion controller

Motor

Application diagram

## Main features

- Compatible with all Ingenia motion controllers.
- Includes functions for managing communication with the motion controller, as well as for its configuration and operation.
- Includes CAN communications libraries for leading device manufacturers:
  - Kvaser
  - IXXAT
  - Peak System
- Includes WINAPI-based RS232 communications library.
- Includes examples of applications (with source code) for Visual Studio C++(VC8).
- Can be integrated into various software environments including LabView, MATLAB, etc.



Operating architecture