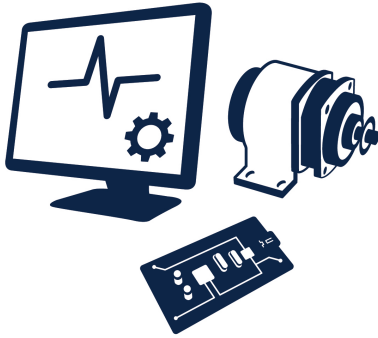# MCSDK expansion package

Features

- Provide application-specific examples
- Add collateral features enhancing motor control solutions
- Expand the hardware available for the creation of new motor control projects

Description

The STM32 motor control software development kit (X-CUBE-MCSDK) offers a complete toolset for your brushless driving applications starting from a wide board portfolio.

The MCSDK-PKG expansion packages for MCSDK further enrich this offer, adding the possibility to start your design from a predesigned application example or adding new hardware on your board library.

Customization is made simple by the motor control workbench (included into the MCSDK) and in a few steps you can adapt the project to your needs.

Product summary	
MCSDK expansion package	MCSDK-PKG
STM32 Motor Control Software Development Kit (MCSDK)	X-CUBE-MCSDK
Applications	Motor control

DB5251 - Rev 2 - August 2024
For further information contact your local STMicroelectronics sales office.

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1   Getting started

Each package includes one or more application examples.

Below is a general guideline of how to use them.

1. Extract the content of the example
2. Open the "readme" file for a detailed description of the package content and how to use it
3. Copy the example folder in your workspace **without changing the folder name**
4. Open the ioc file using the **motor control workbench**
5. Customize the configuration according to the specific application (for instance: motor parameters, speed loop parameters, ...)

Note: *Consider that not all the parameters are editable.*

6. Save the project **without changing the file location** and click on the *"Generate the project"* selecting the preferred IDE among the supported ones
7. Open the generated project with the previously selected IDE
8. Build the project

Revision history

Table 1. Document revision history

Date	Revision	Changes
18-Apr-2024	1	Initial release.
07-Aug-2024	2	Updated product summary table and Section Description.

IMPORTANT NOTICE – READ CAREFULLY