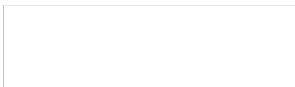
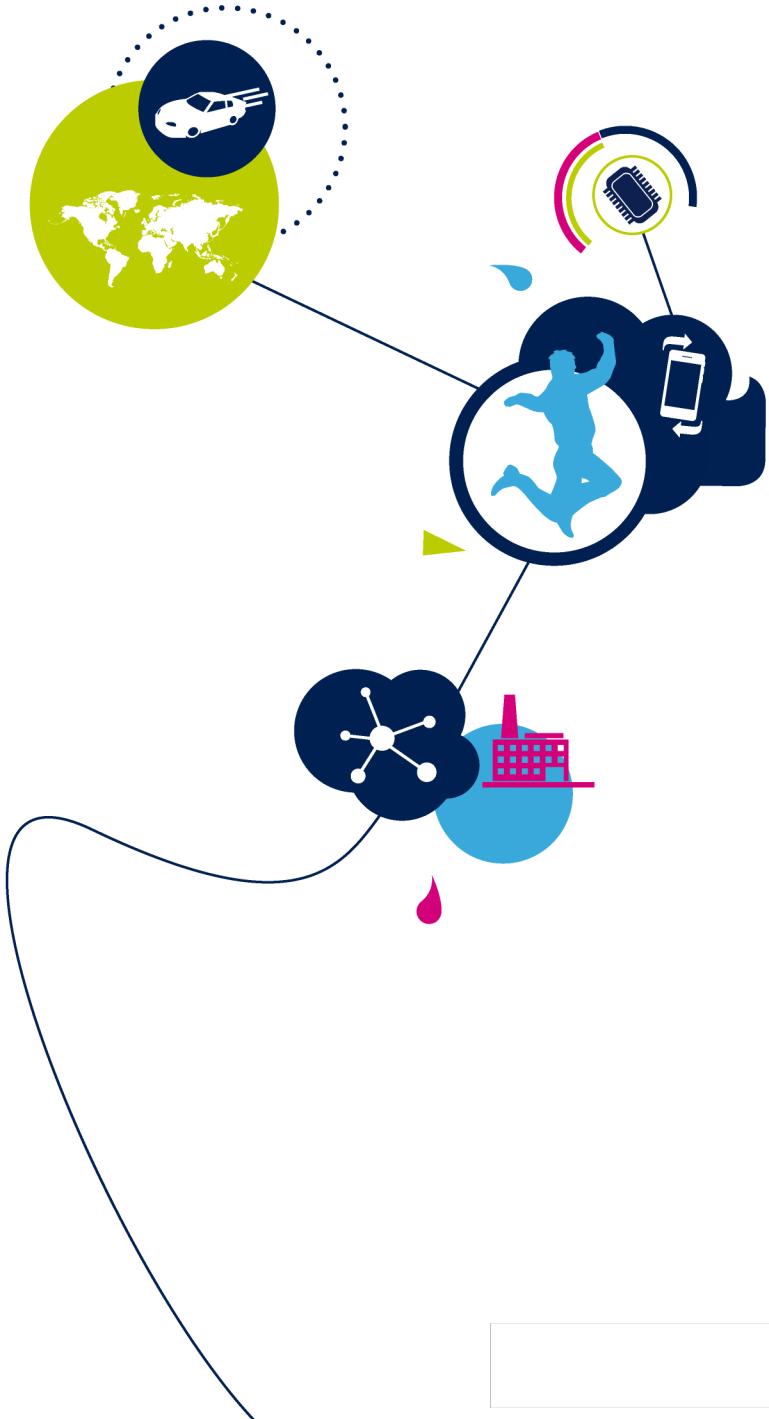


ST-MC-SUITE

STM32 / STM8 Motor Control Suite



The ST Motor Control Suite is an online tool providing everything developers need to create motor control solutions based on the ST MCU ecosystem.

- **Browse** ST's MCU (STM32 and STM8) motor control development resources (hardware tools, software packages, firmware, documentation, videos, training courses, and more)
- **Select** motor control development material (documentation and links to hardware tools, software packages and videos) using an intelligent wizard and **download** them all in a single "bundle" (ZIP file)
- **Save** your motor control "setups" as combinations of the most relevant software packages and hardware tools for the development of your motor control applications.



Step-by-Step

ST Motor Control Suite

4

ST-MC-Suite > Home

STM32 STM8 Motor Control Suite

Browse motor control resources

ST-MC Suite allows you to browse ST's MCU (STM32 and STM8) motor control resources (hardware tools, software packages, documentation and videos).

Create and download a bundle

ST-MC Suite allows you to select motor control materials (documentation and links to hardware tools, software packages and videos) and download them as a bundle (zip file).

Save motor control setups

ST-MC Suite allows you to save motor control setups as combinations of software packages and hardware tools most relevant for the development of your motor control applications.

Show me how it works | OK, let's get started!

Upcoming Events & Seminars

STM32 Motor Control pod on ST booth at Embedded World 2019
26 Nov - 28 Feb, 2019 | Nuremberg, Germany

Key Links

An introduction to electric motors
STM32 Open Development
Motor control applications on Massive Open Online Courses

Forums

Motor Control Forum
STM32 MCU Forum
STM8 MCU Forum

Brochures

Motor Control Reference guide
Products and solutions for Smart Industry

News

X-Cube Motor Control SDK 5.3 is now available with STM32G0 support, FreeRTOS example, Motor Control Workbench updates (direct access to FW examples, more flexibility to pilot the STEVAL-ESC001, LL or HAL choice)

Powered by Analog - Analog Materials

The website includes helpful links about motor control courses, forums and documentation as well as the latest news and upcoming events and seminars.

To help you find your way, there is a short “Show me how it works” video.

What are you looking for?

Close Search

Motor Control Generic Documents & V...
a list of relevant documents and videos to increase my motor control knowledge

Motor Control Solutions
a motor control development environment to shorten my product time to market

Our easy-to-use “let’s get started” wizard lets you choose between personalized motor control solutions, generic documents and videos to improve your motor control knowledge.

With the personalized motor control solution, you can define the criteria of your motor control application (motor type and motor control algorithm).

What are you looking for ?

I am looking for...
a motor control development environment to shorten my product time to market

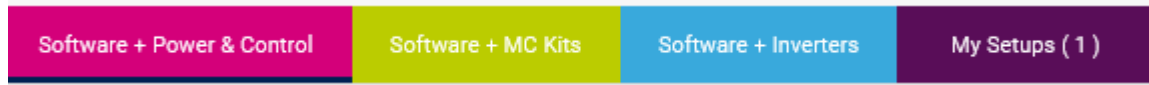
Which Criteria ?

Motor Type
BLDC / PMSM

Motor Control Algorithm
Vector Control (FOC)

Close

Different available setups:






Select and save your development setup by clicking on “add to setup”.

Embedded Software Packages				
Actions	Name	Description	Ecosystem	
> Add to setup	X-CUBE-MCSDK	PMSM FOC library to drive one or two motors	STM32	

Items per page:

Control Boards				
Actions	Name	Family	Components	Connections
> Add to setup	NUCLEO-F030R8	STM32F0	STM32F030R8T6	Morpho
> Add to setup	NUCLEO-F072R8	STM32F0	STM32F072R8T6	Morpho
> Add to setup	NUCLEO-F302R8	STM32F3	STM32F302R8T6	Morpho
> Add to setup	NUCLEO-F303RE	STM32F3	STM32F303RET6	Morpho

Each item of your setup has associated and filterable documents.
All selected documents will be added directly to your bundle.

Control Boards					
Actions	Name	Family	Components	Connections	
<input type="checkbox"/> Add to setup	NUCLEO-F030R8	STM32F0	STM32F030R8T6	Morpho	
Associated Document(s) (0 / 15 selected)					
<input type="checkbox"/>	Description	pdfName	category	version	size
<input type="checkbox"/> 	DB2196 STM32 Nucleo-64 boards	STM32 Nucleo-64 boards	Product Specifications	12.0	461 KB
<input type="checkbox"/> 	TN1235 Overview of ST-LINK derivatives	Overview of ST-LINK derivatives	Technical Notes & Articles	2.0	670 KB
<input type="checkbox"/> 	UM1727 Getting started with STM32 Nucleo board software development tools	Getting started with STM32 Nucleo board software development tools	User Manuals	5.0	2 MB

The ST-MC-SUITE lets you save your setups. Once saved, you get quick access to:

- Purchase boards (redirecting you to the ST website)
- Download software
- Download related PDF files (direct download or option to add it to your bundle)

The screenshot displays the ST Motor Control Suite interface. At the top, there are four navigation tabs: 'Software + Power & Control' (pink), 'Software + MC Kits' (yellow-green), 'Software + Inverters' (blue), and 'My Setups (1)' (purple). Below the tabs is a toolbar with three buttons: 'Download PDF', 'Add PDF to bundle', and 'Delete selection'. The main content area shows a setup named 'Pierrick' with a description '6 step motor control' and a creation date of '1/4/2019'. Below this, there are three component cards: 'Control Board' (NUCLEO-F302R8) with an 'Add to cart' button, 'Power Board' (X-NUCLEO-IHM07M1) with an 'Add to cart' button, and 'Software' (X-CUBE-MCSDK) with a 'Download' button.

The “Generic Documents & Videos” section provides various filterable resources, such as application notes, brochures, technical articles, presentations and more. Select all relevant items and add them to your bundle.

The screenshot displays the 'ST Motor Control Suite' web interface. At the top, there is a navigation bar with the ST logo and 'life.augmented' text on the left, and 'ST Motor Control Suite' with a globe icon on the right. Below this is a breadcrumb trail: 'T-MC-Suite > Home > Finder'. A blue header bar contains 'Motor Control Generic Documents & Videos' and a 'New search' button. On the right of this bar is a 'My Bundle' button with a folder icon and '(3)'. Below the header are two tabs: 'Documents' (active) and 'Videos'. A dark blue sidebar on the left contains a 'Reset filters' button and a search input field. Below the search field are filter dropdowns for 'Category' (Any), 'Motor type' (Any), 'Algorithm' (Any), and 'Ecosystem' (Any). A 'Close' button is at the bottom of the sidebar. The main content area is a table titled 'Documents' with the following columns: Title, Category, Motor type, Algorithm, Ecosystem, and Size. The table lists several documents, with two selected (checked boxes).

	Title	Category	Motor type	Algorithm	Ecosystem	Size
<input type="checkbox"/>	AN4220 - Sensorless six-step BLDC commutation	Application Notes	PMSM	BLDC 6-step	-	946 KB
<input type="checkbox"/>	Motor Control Reference Guide	Brochures	-	-	-	2.96 MB
<input type="checkbox"/>	STM32F3 series - Mainstream 32-bit MCUs	Brochures	PMSM	PMSM FOC	STM32	2.18 MB
<input type="checkbox"/>	STSPIN Motor Control: Design Considerations for Brushless Direct Current Motor Control	Magazine Articles	-	-	STM32	5.54 MB
<input checked="" type="checkbox"/>	STM32 and STM8 embedded software solutions	Presentations	-	-	STM32, STM8	2.55 MB
<input checked="" type="checkbox"/>	X-NUCLEO expansion boards motor control - Selection guide	Selection Guides	-	-	STM32	264 KB
<input type="checkbox"/>	STM32L4 MCU series - Excellence in ultra-low-power with performance	Presentations	-	-	STM32	1.29 MB
<input type="checkbox"/>	X-NUCLEO-IHM16M1 quick start guide	Presentations	PMSM	BLDC 6-step	STM32	1.14 MB
<input type="checkbox"/>	RN0027 - STM8S motor control firmware library package release 1.0	Release Notes	PMSM, 3ph ACIM	BLDC 6-step, ACIM V/F	STM8	45 KB

Add videos to your bundle. Some can be played directly in the tool.

Documents
Videos

☰
Videos

		Title	Algorithm	Motor type
<input type="checkbox"/>		Troubleshooting of your BLDC motor design in ST MC SDK	PMSM FOC, BLDC 6-step	PMSM
<input type="checkbox"/>		Low voltage motor control portfolio	-	-
<input type="checkbox"/>		High Voltage motor control portfolio	PMSM FOC, BLDC 6-step, ACIM FOC, ACIM V/F	PMSM, 3ph ACIM
<input type="checkbox"/>	<input checked="" type="checkbox"/>	STSPIN233, Low-voltage brushless DC monolithic motor driver	-	PMSM
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Get to know STSPIN32F0 Advanced brushless DC motor drivers with embedded 32-bit MCU	PMSM FOC, BLDC 6-step	PMSM
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Getting Started with the NEW Motor Control Nucleo Pack	PMSM FOC	PMSM
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Plug & Play Design For Very Precise Field Oriented 3-Phase Motor Control	PMSM FOC	PMSM
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Solving Stepper Motor Design Challenges with PowerSTEP01	-	Stepper
<input type="checkbox"/>	<input checked="" type="checkbox"/>	STSPIN Designing for small motors with 1.8V driver Ics	-	Stepper
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Getting started with low DC motor driver expansion board	-	Brushed DC
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Get your mbed project with X-NUCLEO-IHM02A1 started	-	Stepper

Reset filters ↺

Search

Algorithm
Any ▼

Motor type
Any ▼

Close




Find all your selected recourses in your bundle.
The bundle can be downloaded as a .zip file with just one click.



Your bundle is ready !

[Clear bundle](#)

Motor Control Generic Documents & Videos ^

[Documents \(3\)](#) delete all (3)

- Presentations : [STM32 and STM8 embedded software solutions](#) - 3 MB 
- Selection Guides : [X-NUCLEO expansion boards motor control - Selection guide](#) - 264 KB 
- AN5166 - Application Notes : [Guidelines for control and customization of power boards with STM32 MC SDK v5.0](#) - 323 KB 

 [ST-Motor-Control-setups.pdf](#) 

Estimated bundle size : 3.57 MB

[Close](#) [Download Zip File](#)

Releasing Your Creativity

