

## Firmware example for compressor motors

Application	Motor compressor example	
Middleware	Field-oriented control	
Hardware Abstraction	Hardware Abstraction Layer API	Board Support Package
	STSPIN32F0601Q	
Hardware	STSPIN32F0601Q	
	STEVAL-CTM011V1 STEVAL-CTM012V1	

### Features

- Firmware example for the [STEVAL-CTM011V1](#) and [STEVAL-CTM012V1](#) evaluation boards
- Designed for the [STSPIN32F0601Q](#) intelligent motor controller
- Suitable to be integrated into [X-CUBE-MCSDK](#) workflow

### Description

The [STSW-CTM011](#) is a reference firmware generated for IAR v8.5. It works on the [STEVAL-CTM011V1](#) and on the [STEVAL-CTM012V1](#) with one-shunt resistor (default configuration).

You can download the firmware on the [STSPIN32F0601Q](#) through the SWD port.

To generate the firmware using [X-CUBE-MCSDK](#), follow the procedure described in [UM2962](#) for the [STEVAL-CTM011V1](#) evaluation board and [UM2963](#) for the [STEVAL-CTM012V1](#) evaluation board.

Product summary	
Firmware example for compressor motors	<a href="#">STSW-CTM011</a>
250 W mainstream compressor solution based on <a href="#">STSPIN32F0601Q</a> and <a href="#">STGD5H60DF</a>	<a href="#">STEVAL-CTM011V1</a>
High-efficiency 250 W compressor solution based on <a href="#">STSPIN32F0601Q</a> and <a href="#">STD8N60DM2</a>	<a href="#">STEVAL-CTM012V1</a>
600 V three-phase controller with MCU	<a href="#">STSPIN32F0601Q</a>
H-series, 600 V, 5 A high-speed trench gate field-stop IGBT	<a href="#">STGD5H60DF</a>
Applications	<a href="#">Motor Control</a>

## Revision history

**Table 1. Document revision history**

Date	Revision	Changes
02-Feb-2022	1	Initial release.
16-Feb-2022	2	Updated cover page description.

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