

MxK28335 Complete Motor Control Kits with Floating-point DSC

Technosoft announces the new MxK28335 DSC Motor Control Kits family based on the TMS320F28335 floating-point digital signal controller (DSC). From basic starter kits to most sophisticated professional kits with complete source code motion application libraries, this family offers a wide range of excellent tools for the design of DSC-based motor control applications. The kits have a modular structure; you can easily upgrade from a simpler kit to a more powerful one, as your project complexity requires it, by adding new software / hardware modules.



To quickly develop and test motion control algorithms, the MSK28335 boards use the 150 MIPS computational power of the TMS320F28335, combined with a double-event manager able to drive up to 18 PWM and 16 A/D converters. The embedded CAN interface may be used to connect the board to multiple-axis structures. The kits can be connected to a PC via an RS232 interface to download, execute and debug the software applications without the need of other hardware devices.

The basic MSK28335 kits are designed for users who already have the power module and motor, and want to develop their motion control software application for educational purposes. These kits allow quick debugging and implementing of the program and the evaluation of the DSC.

The MCK28335 kits are complete development platforms that come with a power module and a brushless or an induction motor, representing the perfect tools for digital motion control designs. They enable easy debugging and implementing of the program, and the evaluation of the solution. Two ready-to-run speed control demos (PMSM & BLDC) let you to start evaluating the motor control using graphical motion analysis, system tuning and different speed reference profiles. They include motion demos, with graphical analysis and controller tuning tools. Users have a complete hardware structure for their motion control application development. With these kits it is easy to learn 'F28335 programming using ready-to-run examples with source code and an advanced GUI.

The most sophisticated MCK28335 professional kits also include application examples (in source code) for the control of either brushless or induction motors, and Matlab function libraries, which are Simulink models for the PMSM or induction motor position / speed control. These kits can be used to easily develop, analyse and test your application. Some real benefits: Simulink motion control models (to generate code, simulate, run on DSP and compare results); no code writing (directly run the code generated from the Simulink model); complete hardware and software platforms for motion control application development.

Using the floating-point device embedded in the Technosoft MxK28335 Motor Control Kits family, you will significantly reduce the development effort and time; specific issues related to fixed-point processors (as saturation, overflow, scaling of parameters and variables) are no longer a problem now.

Further details: <http://www.technosoftmotion.com/products/F28335-comparison.htm>

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