

DSP Professional Development Solutions with Source Code Applications

In the field of Motion Control Development Tools, Technosoft offers the most advanced solution for Digital Motor Control (DMC) – the **MCK24xx Kit C Pro S**. These development packages, containing all the required hardware (DSP module, power converter, motor and sensors) and development software tools, are self-contained in order to allow you to start evaluation and development immediately. You will discover how easy it is to control a brushless motor or an induction motor by having a completely operating system, the full source code available and several ready-to-run examples powered by DMCD-Pro, the Digital Motion Control Development platform. For DMC applications designers, these examples can represent a useful starting point for any advanced motion control application.



These Professional Development Kits with source code applications cover the whole range of TI DSP motion controllers including the TMS320C24xx series, for controlling the brushless and induction motors. The source code applications come as plug-ins for DMCD-Pro and contain, along with several routines built around a real-time motion control, examples on how to use these routines in order to solve a practical speed control task.

For the brushless motor speed control there are two ready-to-run complete source code applications, fully documented, for the following modes:

- Trapezoidal mode (BLDC)
- Sinusoidal mode (PMSM - vector control)

A vector control method is used for the AC motor control mode (PMSM), based on the position information given by the incremental encoder. For the DC motor control mode (BLDC), the information from the Hall sensors is used to perform the block commutation of inverter phases.



