

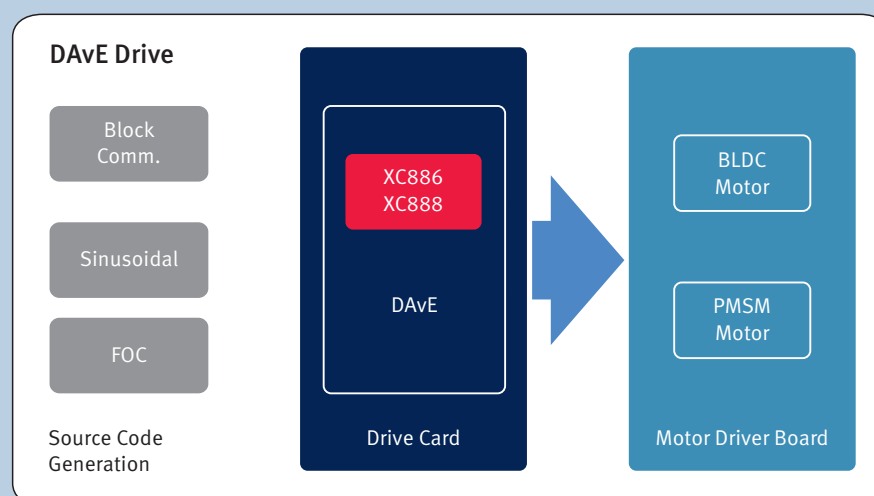


DAvE Drive

Application Code Generator for PMSM and BLDC Motor Control with Infineon's 8-bit Microcontrollers

DAvE DRIVE is a GUI based software tool that allows application developers to configure XC886/XC888 software for control of brushless synchronous 3-phase motors in a very efficient way. With DAvE Drive, the developer is only a few mouse clicks away from customized code reflecting choice of motor, motor speed, type of control and various other options. DAvE Drive uses the full power of Infineon's microcontroller, e.g. it generates optimized FOC code for XC886 using Vector Computer which usually requires expert knowledge in both motor control and assembler programming.

DAvE Drive is an application centric add-on to DAvE, Infineon's Digital Application Virtual Engineer. DAvE provides initialization, configuration and driver code to ease programming for beginners as well as experts. This tool generates complete algorithms in source code, ready to be compiled and debugged by popular tools, as Keil compiler or Tasking compiler.



Order Code:

- KIT_AK_DAVEDRIVE_V2

Key Features

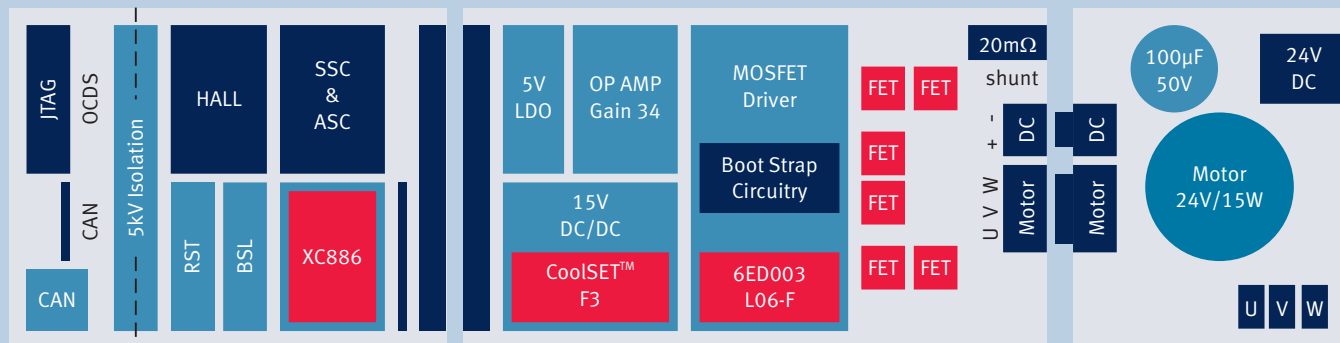
- Motor types: BLDC, PMSM
- Control algorithm: sensorless field oriented control, block commutation with hall sensors and sensorless
- Microcontrollers: 8-bit XC886 and XC888 microcontroller series
- Flexibly generates optimized code and is not based on static libraries
- Configures Infineon's powerful and flexible motor control peripherals
- Compresses a detailed user manual into a few mouse clicks
- Helps designers to quickly and easily implement advanced motor control techniques on low-cost components
- Is based on the successful DAvE software for chip-level
- Is pre-configured for Infineon's 3-phase Motor Drive Applications Kit (KIT_AK_3PHASE_DRIVE_V1), Scalable-LV-PMSM-Motor Drive-Application Kit with DAvE Drive (KIT_AK_DaveDrive_V2) and BLDC Drive Application Kit (KIT_AK_DAVEdrive_V1)

Applications:

- Industrial motor control
- Transportation systems
- Consumer motor control
- Appliance motor control

DAvE Drive

New Scalable Low Voltage PMSM-Motor Drive Kit Supporting Latest Version of DAVe Drive

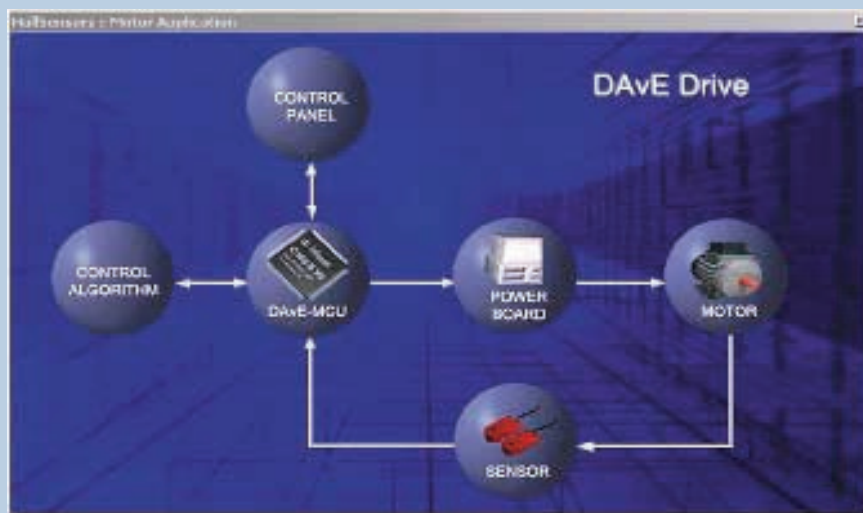


Key Features

- XC886/XC888 with vector computer
 - PWM unit
 - Fast ADC with <200ns sample time
- Power board for up to 400W power rating (22V – 56V DC, 7.5A)
- DriveMonitor: USB-CAN bridge for real time monitoring

Graphical User Interface of DAVe Drive

Infiniteon's DAVe and DAVe Drive are GUI based configuration tools and source code generators. DAVe Drive let's you select motor type, motor speed and torque.



How to reach us:
<http://www.infineon.com>

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