BOSCH

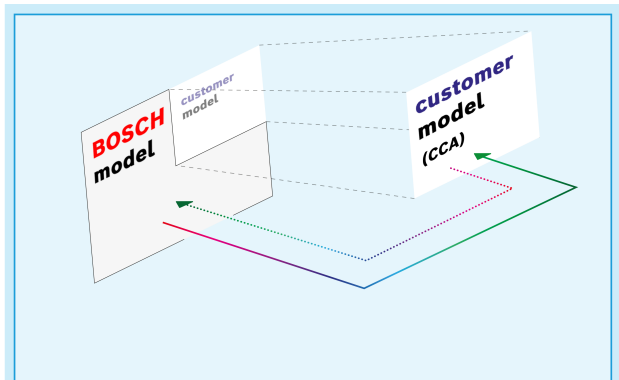# CCA Development Environment

▶ Calculation directly in Bosch main device possible

▶ Communication binding via Software free cuts

▶ Unlimited bandwidth interfaces

▶ One Box Design (compact solution, no extra weight)

We provide the option to run software code on our ECUs that has been developed by the customer. This code is run in the customer code area (CCA) and is protected against access of anyone else. Within ECUs and VCUs, this feature can be run in parallel to all further functionality.

We deliver it with a full environment for Matlab/Simulink, a compiled Bosch model as library and a package of Matlab/Simulink interfaces to all I/Os.

Technical Specifications

General Functions

Support for generating executables that include algorithm, device-driver and real-time operating system
Multitasking scheduling using time synchronous (and asynchronous) tasks, task pre-emption and temporary task overruns
Environment for Matlab/Simulink
Full I/O access with Bosch-Motorsport device drivers
Full read access to all Bosch signals
Development Environment with reduced Bosch "unit_blockset"
Real time calibration
Calibration and measurement interface XCP via Ethernet
SW-Download via Bosch Motorsport calibration tool RaceCon
Software option for all ECUs and VCUs
Free maintenance for the first 12 month, afterwards with costs.

System Requirements

MathWorks Requirements

- MATLAB R2018b
- Simulink R2018b
- MATLAB Coder
- Embedded Coder
- Simulink Coder
- Stateflow
- Compiler for Mathworks
- Microsoft Visual C++ 2017

Operating System

- Windows 10
- Microsoft Visual C++ 2005 Redistributable (x64)
- Microsoft Visual C++ 2008 Redistributable (x86)
- Microsoft Visual C++ 2008 Redistributable (x64)
- Microsoft .NET Framework 2.0, 3.5.1, 4.8
- Microsoft Excel 2016(32bit) or Office365(64bit)

DocGen

- basic-miktex-21.2-x64.exe from https://miktex.org/download

Additional (not included)

Multi CCA for VCU

Enables the use of an extra core to utilize more computing power in the device for running a second customer model

Legal Restrictions

Due to embargo restrictions, sale of this Software Tool in Russia, Belarus, Iran, Syria, and North Korea is prohibited.

Ordering Information

CCA Development Environment
Order number **F02U.V02.370-01**

Yearly License Maintenance
Required to work with CCA Development Env.
Order number **F02U.V02.843-01**

Initial Customer firmware to run CCA on ECU
Order number **on request**

Multi CCA Development Environment for VCU

Order number **F02U.V03.223-01**

Software Options

CCA Hardware Upgrade per device

Order number **F02U.V02.137-01**

Multi CCA Hardware Upgrade VCU per device

Order number **F02U.V03.222-01**