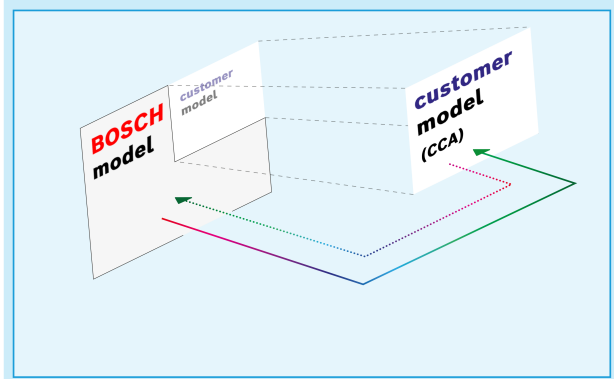


CCA Development Environment



- ▶ 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

Generally blocked are direct and indirect business involving high risk destinations, including Russia, Belarus, Cuba, Iran, North Korea, Syria, Libya, Afghanistan, and certain non-governmental controlled Ukrainian regions. This list may change as geopolitics evolve.

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 deviceOrder number F02U.V03.222-01

Represented by:**Europe:**

Bosch Engineering GmbH
Motorsport
Robert-Bosch-Allee 1
74232 Abstatt
Germany
motorsport@bosch.com
www.bosch-motorsport.de

North America:

Bosch Engineering North America
Motorsport
38000 Hills Tech Drive
Farmington Hills, MI 48331-3417
United States of America
motorsport@bosch.com
www.bosch-motorsport.com

Asia-Pacific:

Bosch Engineering Japan K.K.
Motorsports Department
1-9-32 Nakagawachuo, Tsuzuki-ku
Yokohama-shi
Kanagawa, 224-8601
Japan
motorsport@jp.bosch.com
www.bosch-motorsport.jp

Australia, New Zealand and South

Africa:
Robert Bosch Pty. Ltd
Motorsport
1555 Centre Road
Clayton, Victoria, 3168
Australia
motor.sport@au.bosch.com
www.bosch-motorsport.com.au