

Sokratel Embedded Systems

Unlock the full potential of your hardware



Automotive | Automation
Green Energy



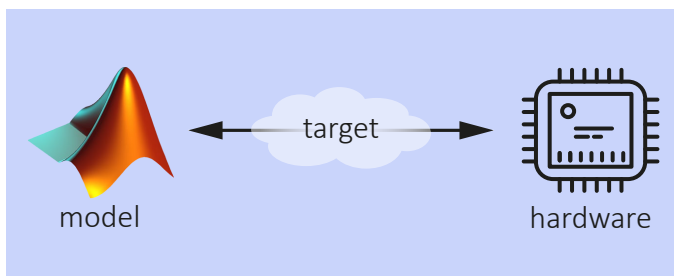
A **large variety of different processing systems** including micro processors, FPGAs or the combination with multi processor systems on a chip (MPSoCs) are available on the market.

To **meet your individual performance requirements** our Sokratel Embedded Systems Team offers **custom-built drivers and applications**. Our products are used in **converters for critical infrastructure or industrial communication**, among others.



How does it work?

The Sokratel Embedded Systems Team provides so called **MATLAB® Simulink® Targets**. With these targets, the user can develop their application in MATLAB Simulink for embedded systems and automatically load and run it on the desired hardware with one click. By using **special blocks for MATLAB Simulink** for the communication between different user applications within the board (e.g. FPGA, APU, RPU) or to the outside (e.g. Ethernet, CAN, UDP) can be easily realized.



Supported platforms & operating systems:

- AMD Zynq™ Ultrascale+™ MPSoC
- Different processor types
- FPGA
- Speedgoat®
- dSPACE®
- **FreeRTOS™**
- **Linux®**
- **Baremetal**
- ...and more

Our Experience

During the realization of individual projects, we can rely on the **experience in the use of various software**.

This includes:

- MATLAB
- MATLAB Simulink
- MATLAB® Embedded Coder®
- MATLAB® HDL Coder™
- Configuration Desk™
- Microsoft® Visual Studio®
- AMD Vitis™
- AMD Vivado™

Our high quality product SIRIUS OS Embedded Real-Time Target for MATLAB® Simulink® demonstrates Sokratel's expertise in Embedded Systems Development. The target we developed provides an **interface between AMD Zynq™ Ultrascale+™ MPSoC products and MATLAB Simulink**.

We are looking forward to assisting you in finding the **ideal hardware for your project**. With our custom-built drivers and applications we pave the way to an ideal environment, so you can successfully face your company's challenges.

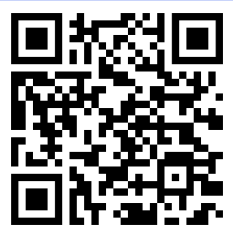


Tim Krause
Sokratel GmbH
Head of Division Automation



Thomas Frei
Sokratel GmbH
Managing Director

Contact: contact-automation@sokratel.com



You want to learn more?

Scan the QR-Code to explore our website or contact us!