

SPC58 MCUs

ETAS RTA AUTOSAR Starter kit



System solution approach to AUTOSAR development

ST's ETAS real-time application starter kit (ETAS-RTA) is a complete ready-to-go solution for the engineer who wants to develop an AUTOSAR ECU-based application using our SPC58 microcontrollers. The starter kit is a comprehensive development solution that includes the basic software (BSW), microcontroller abstraction layer (MCAL), and run-time environment (RTE) defined by the "Automotive Open System Architecture" (AUTOSAR), a common software infrastructure for automotive systems. The starter kit provides all the necessary software tools and evaluation licenses, together with example application software and configurations

KEY FEATURES

- Support of enhanced hardware features embedded in SPC58 G Line MCUs:
 - CAN with Flexible Data-Rate (CAN FD) protocol
 - Ethernet for audio video bridging (AVB) applications
 - FlexRay communications bus
 - Low-power modes
- Ready-to-use AUTOSAR reference applications:
 - Over-the-air (OTA) firmware and file system upgrades
 - Car gateways
 - Body control modules
- Training courses available:
 - Development of application software
 - Using the ETAS Experiment Environment
 - Designing applications using ISOLAR-A system authoring tool

SOFTWARE PACKAGES

- ST MCAL: Highly optimized microcontroller abstraction layer
- ETAS-RTA components:
 - RTA – RTE
 - RTA – OS
 - RTA – BASE
 - RTA – COM
 - RTA – CAN
 - RTA-SAFE
 - RTA- MEM
 - RTA – DIAG
 - RTA – XCP
 - RTA-A2L
 - ISOLAR-A

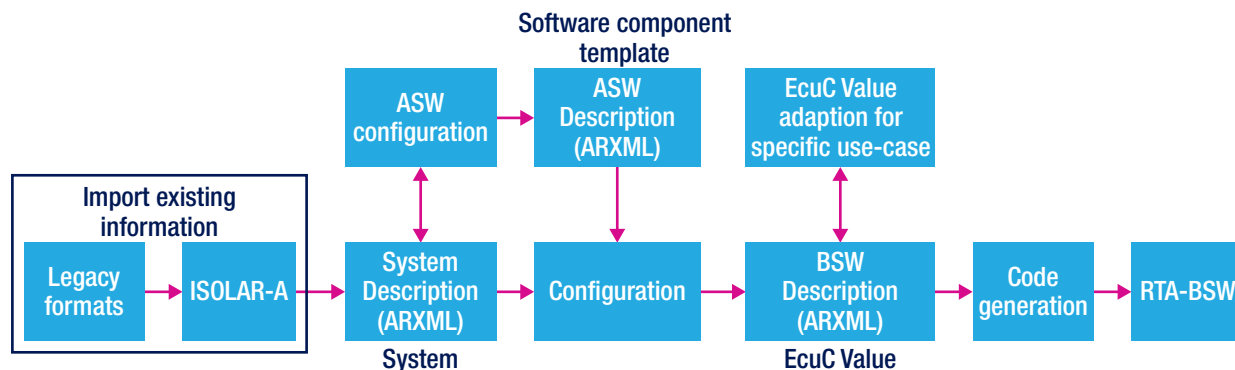


SPC58 G LINE

AUTOSAR starter kit contents

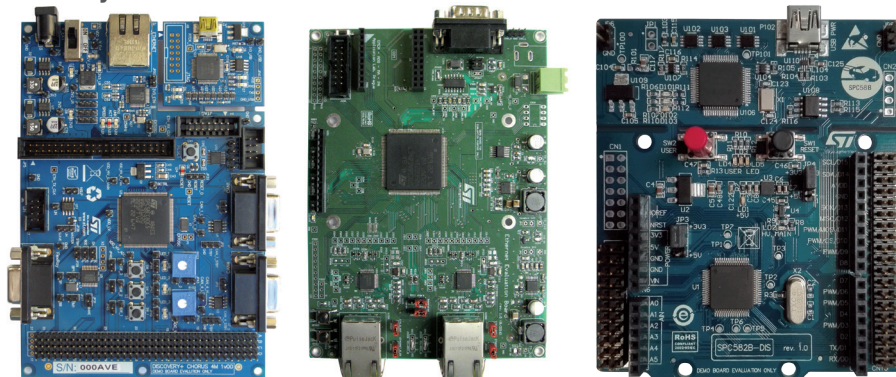
Reference application

- ST's ETAS real-time application starter kit (ETAS-RTA) demonstrates:
 - Tool workflows (including configuration from legacy formats such as DBC)
 - CAN-FD communication (including the UDS diagnostic protocol)
 - Diagnostic event management
 - Non-volatile memory management
 - Mode management
 - Watchdog management
 - E2E (end-to-end communication protocol)
 - Calibration via XCP using a generated A2L file



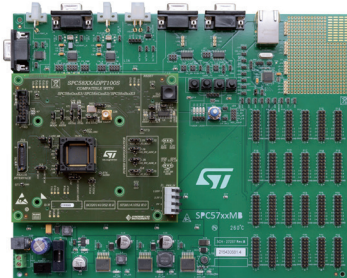
Hardware development platform

Discovery kits



Quick starter kit for early evaluation
 SPC58NG-DISP
 SPC58EC-DISP
 SPC584B-DIS (in development)
 SPC582B-DIS

Premium boards



Complete hardware solutions for advanced development that ensure full access to the device's features
 SPC5XXADPT292S
 SPC5XCADPT292S
 SPC58XXADPT176S
 SPC58XXADPT144S
 SPC58XXADPT100S
 SPC58XXADPT64S



For further information go to
www.st.com/spc58-networking
www.etas.com/RTA-SOLUTIONS



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