

# 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

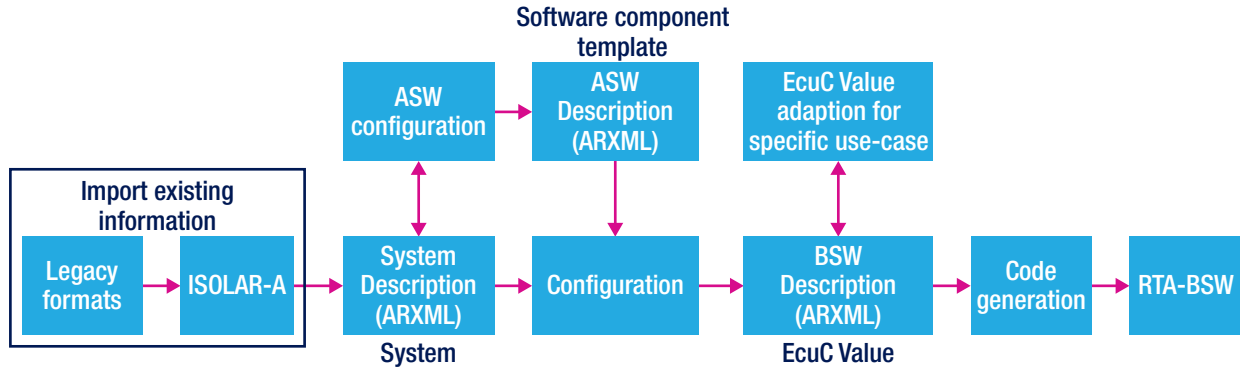


## SPC58 G LINE

### AUTOSAR starter kit contents

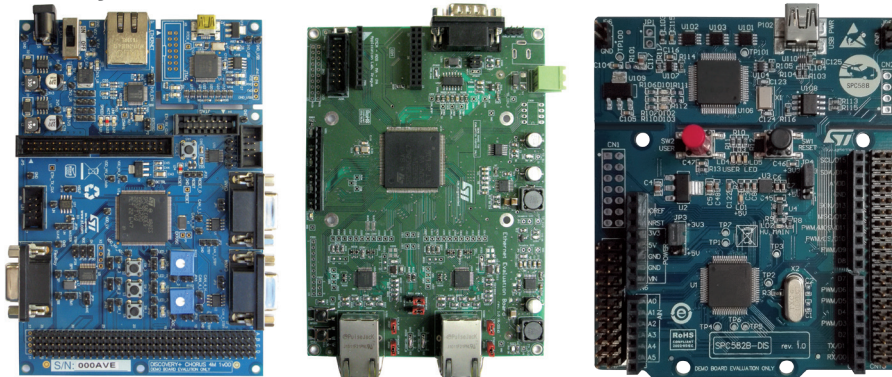
#### Reference application

- 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



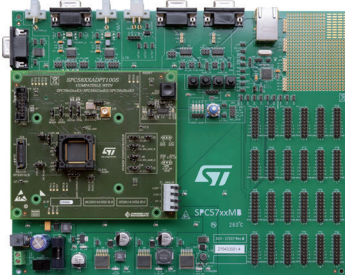
### Hardware development platform

#### 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](http://www.st.com/spc58-networking)  
[www.etas.com/RTA-SOLUTIONS](http://www.etas.com/RTA-SOLUTIONS)



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