Chipsmall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

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
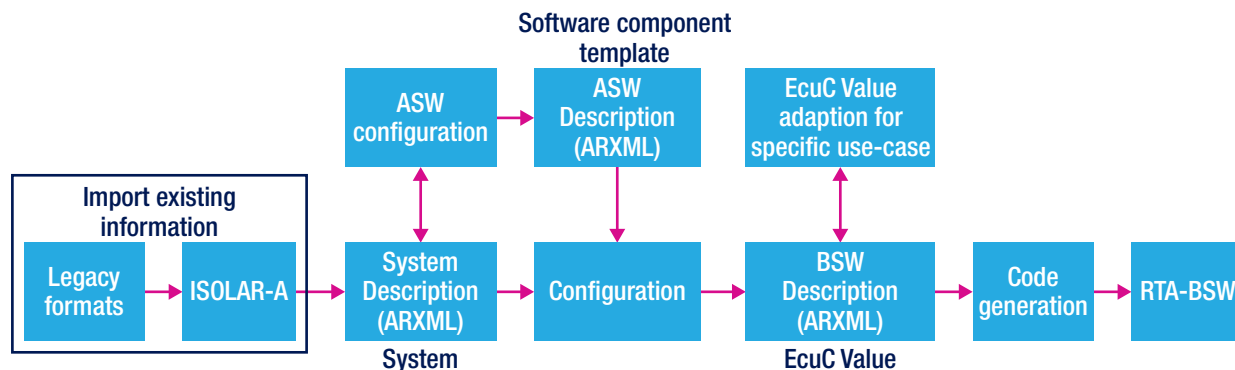 - RTA – XCP
  - RTA-A2L
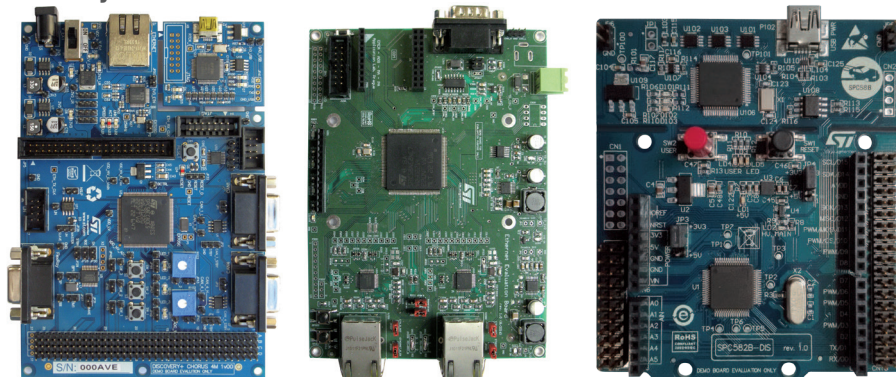 - ISOLAR-A

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)
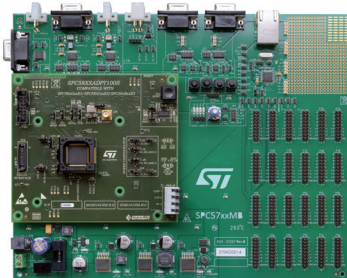- Calibration via XCP using a generated A2L file

Software component template

Import existing information: Legacy formats → ISOLAR-A → System Description (ARXML) → Configuration → BSW Description (ARXML) → Code generation → RTA-BSW

ASW configuration → ASW Description (ARXML) → Configuration

EcuC Value adaption for specific use-case → BSW Description (ARXML)

System — EcuC Value

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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