

## STSW-AUTODEVKIT - AutoDevKit Studio 2.7.0

#### Introduction

This document is updated periodically to record STSW-AUTODEVKIT updates, known problems, and limitations. AutoDevKit Studio 2.7.0 replaces the previous plugin zip file.

This new release offers an innovative way of delivering the AutoDevKit package: a unique zipped .exe includes SPC5 Studio with the AutoDevKit plugin already installed. This is only the first step for our new tool named AutoDevKit Studio.

A new Welcome page has been created in AutoDevKit Studio. This page contains three tabs:

- The first tab highlights the news about the AutoDevKit ecosystem. Each "tile" represents an update.
- The second tab contains the tutorial video links to learn about AutoDevKit by yourself.
- The third tab introduces AutoDevKit sample applications. By clicking on the sample application name, the system imports the related AutoDevKit Studio project. The Welcome page appears after installing the AutoDevKit Studio. You can always recover it through the Help > Welcome menu.

The installation package includes an open on-chip debugger (OpenOCD), which aims at debugging, in-system programming and boundary-scan testing for embedded target devices.

OpenOCD is available for SPC58x projects. To use it, you need to supply the .elf file generated after compiling the project. From hardware point of view, to download the code in the MCU flash or RAM, you can use the programmer hosted on the SPC58x discovery boards or the dongle board AEK-MCU-SPC5LNK (supporting OpenOCD).

For PLS UDE back compatible dongle, please have a look at AEK-MCU-SPC5LNKU.



## License details

For most of the components, we have migrated the software license agreement from SLA0089 to SLA0098. For further details, refer to SLA0098.

## How to install AutoDevKit Studio

Step 1.	Download the zip file www.st.com/autodevkitsw
Step 2.	Uncompress the zip file
Step 3.	Launch the .exe file
Step 4.	Accept the license
Step 5.	Ignore warnings



Table 1. STSW-AUTODEVKIT release summary

Туре	Summary
Minor release (version 2.7.0)	New components:  AEK-POW-PDUMINI The AEK-POW-PDUMINI board is based on last-generation programmable e-fuses and can be easily connected to the AEK-MCU-C4LIT3 MCU board(or the soon available AEK-MCU-C4MLIT2) using a standardized 96-pin plug-and-play automotive unified connector (other automotive MCUs like Stellar and STMS2A to be supported in the future using the same connector). The key supported devices are:  L99SP08 Smart octal P-channel for ultra-low current consumption in automotive systems, featuring 400 mA per channel, able to interact with the high-side drivers with STi*Fuse. It is controllable via SPI from MCU.  VNF91MSQ 2-channel high-side driver with STi*Fuse protection for automotive power distribution applications, featuring 27 A per channel. The board features two instances or this device.  VNF90SSF 2-channel high-side driver with STi*Fuse protection for automotive power distribution applications, featuring 15 A per channel.  VNP90SSF 4-channel high-side driver with STi*Fuse protection for automotive power distribution applications, featuring 6 A per channel.  VNP90SSF 4-channel high-side driver with STi*Fuse protection for automotive power distribution applications, featuring 6 A per channel.  SPSB0815 Automotive power management IC (PMIC) with LIN and CAN-FD, which manages the wake-up for the MCU e.g., following a Parking mode to Running mode application state transition.  VNT140AJ High-side driver with current feedback for automotive applications, used to power the MCU board from 12 V (VBAT) at power-up and after a wake-up condition.  LDL40 200 mA low dropout LDO.  AEK-MCU-C4MIT3 The AEK-MCU-C4MILT3 evaluation kit consists of an MCU board (AEK-MCU-C4M3) and a connector board (AEK-CON-LIT). The AEK-MCU-C4M3 is designed to address Automotive and Transportation applications as well as other applications requiring automotive safety and security levels. A cryptography-decided MCU core, employed as hardware secure module (HSM), is paired with a dual 180 MHz general-purpose 32-bit core, hosted by the o

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#### Summary Type AEK-POW-L99SP08 Smart octal P-channel for ultra-low current consumption in automotive systems, featuring 400 mA per channel, able to interact with the high-side drivers with STi²Fuse. It is controlled by the MCU via SPI AEK-POW-VNF1248F The device is an advanced controller for a Power MOSFET in high-side configuration, designed for the implementation of an intelligent high-side switch for 12 V, 24 V, and 48 V automotive applications. The control IC interfaces a host microcontroller through a 3.3 V and 5 V CMOS-compatible SPI interface and provides protection and diagnostics to the system. **AEK-POW-SPSA068** SPSA068 is a BUCK voltage regulator with a precise voltage reference for MCU applications. All the regulators have internal power switches. The low-power mode (LPM) allows the operation under light-load conditions reducing the quiescent current down to 50 µA typ. An internal programmable memory allows selecting the main device parameters like output voltages and switching frequencies. An SPI interface can be used for diagnostics, programming, monitor and external window watchdog. The device offers a set of features to support applications that need to fulfill functional safety requirements as defined by automotive Safety Integrity Level. **AEK-POW-LDOV02X** The L99VR02XP dual automotive-grade linear voltage regulator operates with reduced input voltage, minimizing the internal power dissipation and maximizing the output current. Output current limitation protects the regulator and the application from overload conditions, such as short to ground. Thanks to its operating temperature range (Tj=-40°C to 175°C), the device is suitable for electronic applications with high temperature environments and for applications that require stable power **AEK-POW-8DCMH98** L99MH98 is an integrated octal half-bridge pre-driver dedicated to control up to sixteen Nchannel MOSFETs. It is intended for DC motor control applications such as automotive power seat control or other applications. A 24-bit serial peripheral interface (SPI) is used for configuring and controlling the eight half-bridges or four H-bridge. SPI status registers provide high-level diagnostic information such as supply voltage monitoring, the charge pump voltage monitoring, temperature warning and overtemperature shutdown. Each gate driver monitors independently its external MOSFET drain-source voltage for fault conditions. The L99MH98 supports indirect current measurement on external MOSFETs, allowing cost saving and lower system complexity, avoiding the usage of shunt resistors. A more efficient gate current control of the external MOSFETs, called "three stages gate current", decreases and optimizes electromagnetic interference (EMI) AEK-POW-BMS63EM The AEK-POW-BMS63EM board uses an MCU SPC58NN84E7 to manage two or more AEK-POW-CHAIN components. The board power supplies are controlled by the SPSB100 PMIC (the device driver is available in the source folder). Additionally, the board includes the following components: 2 isolated transceivers L9963T 1 L9963EF automotive chip for battery management applications with daisy chain up to 31 devices The aim of the demo for this board is to provide an example of how a Dual Access topology with 2 Automotive Battery Management Systems (BMS) works, managing a battery pack with 14 Li-ion battery cells (LG INR 18650 MJ1). The AEK-POW-BMS63EM is the first node of the chain, while the additional nodes can be other BMS boards of our portfolio. AS the AEK-POW-BMS63EM embeds two transceivers, it is also the last node of the chain. The AEK-POW-BMS63EM is able to measure voltage, temperature and current monitoring, providing battery state of charge (SoC), battery state of health (SOH) and cell balancing of lithium-ion (Li-ion) batteries. Updated components: AEK-POW-SPSB081 The AEK-POW-SPSB081 is based on SPSB081, a power management system IC providing electronic control modules with enhanced power management functionality, including various standby modes to minimize the power consumption with programmable local and remote wake-up capability, as well as LIN and CAN FD physical communication layers. Undates Changed driver structure.

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Туре	Summary
	AEK-COM-10BASET     The AEK-COM-10BASET evaluation board is a powerful tool to explore various vehicle network architectures, leveraging on the new 10BASE-T1S automotive Ethernet protocol implementation and other on-board legacy automotive interfaces (CAN, CAN-FD and SPI). This board merges the innovations brought by the new 10BASE-T1S specification with the high-performance dual-core SPC58EC80E5 Chorus family microcontroller. The AEK-COM-10BASET essentially acts as a gateway to interconnect incompatible communication systems, allowing a vehicle zone sensor/actuator to receive messages in the 10BASE-T1S protocol format even if the zone components are not able to communicate via Ethernet. The board features a PHY-MAC transceiver, which communicates with the MCU via SPI, and a PHY only transceiver requiring an Ethernet MAC to run in the MCU. In our board, these transceivers support only half-duplex communication. Both are connected to the MCU, one using the MMI port while the other using a SPI channel. The firmware embedded in the board can manage a software-implemented Ethernet MAC and runs under FreeRTOS operating system.  Updates:  Bugfix in the demo.

## **Customer support**

For more information or help concerning AutoDevKit, contact the STMicroelectronics nearest sales office or visit AutoDevKit community under community.st.com/autodevkit. For a complete list of STMicroelectronics offices and distributors, refer to the www.st.com webpage.

Note:

STMicroelectronics declines any responsibility regarding third-party components included in the library. No support is provided by STMicroelectronics. Please, contact the specific third-party component makers for relevant inquiries.



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## 1 General information

AutoDevKit library contains software components for functional boards. Each component has a specific API able to control the specific functional board. The API consists of a set of "methods". Some of these are very high-end and simple to use even to the hardware inexpert user. Other methods access more specific low-level board/chip functions able to exploit more advanced configurations and features.

AutoDevKit components are provided with a graphical user interface for easy configuration and set-up. The peripherals and pins configuration and allocation is automatically performed with a simple button-press action.

In the same library, simple demo examples of component usage are provided.

All components have online help available with details related to usage and available APIs.

## 1.1 System requirements

- Installation of STSW-AUTODEVKIT from www.st.com/autodevkitsw (AutoDevKit Studio IDE)
- AEK-MCU-SPC5LNK debugging software for OpenOCD debugger
- Microcontroller board(s)
- Functional board(s)
- Connector board(s) if required by the project

### 1.2 Disclaimer

Software if provided for free "as is". The code provided is only to demonstrate functionalities and it is not industrialized. STMicroelectronics shall not hold any responsibility for the usage and misusage of the code provided. STMicroelectronics bears no liabilities in case the code (or part of it) is used for demonstrators or prototypes or commercial products. STMicroelectronics bears no liabilities in case the code contains bugs that could impact developers and/or final customers. STMicroelectronics bears no liabilities for third party code included in the library.

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# 2 Recent AutoDevKit updates

#### 2.1 Known limitations

- Demo for AEK-POW-L5964V1 (NRND) for USB-PD is pin-out fixed and configuration is compatible only with AEK-MCU-C4MLIT1 (NRND) and SPC58EC-DISP boards.
- Demo for AEK-POW-L5964V1 (NRND) for adjustable DC-DC pin-out is not fixed but API functionalities are limited.

## 2.2 Supported microcontroller boards

- AEK-MCU-C4MLIT1 (NRND) Light version of SPC58EC-DISP
- AEK-MCU-C1MLIT1 Light version of SPC582B-DIS
- AEK-MCU-C4MINI1 SPC58EC with pre-allocated pins
- AEK-MCU-C4MLIT3 cost-optimized and compact size MCU discovery kit for SPC58EC80E5 Chorus 4M automotive microcontroller with CAN-FD and unified automotive connector
- SPC58EC-DISP Discovery board for SPC58EC MCU with extended connectivity
- SPC584B-DISP Discovery board for SPC584B MCU with extended connectivity
- SPC582B-DIS Discovery board for SPC582B MCU with Arduino™ connector
- SPC584B-DIS Discovery board for SPC584B MCU with Arduino<sup>™</sup> connector
- SPC58EC-DIS Discovery board for SPC58EC MCU with Arduino™ connector

## 2.3 Supported connector boards

- AEK-CON-AFLVIP2 (NRND) Adaptive Front-Lighting connector board with EV-VNx7x slot
- AEK-CON-5SLOTS1 (NRND) Connector board for discovery boards with 4x37 connector allowing pin rearranging and re-ordering
- AEK-CON-BSPOTV1 (NRND) Connector dedicated to detection in blind-spot application educational tool
- AEK-CON-SENSOR1 (NRND) Connector board for SPC5 MCU discovery boards and MEMS sensor boards in DIL 24 socket

### 2.4 Bug fixed

As shown in Table 1. STSW-AUTODEVKIT release summary.

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## 2.5 Previous versions

Table 2. STSW-AUTODEVKIT release history

Туре	Summary
Minor release (version 2.6.1)	Installation bugfix
	New components:  AutoDevKit Smart Dashboard AutoDevKit Smart Dashboard is an intuitive GUI that allows the users:  — to set the peripherals available on the board connectors (GPIO, SPI, CAN, ADC, LIN, EIRQ, I2C and PWM) and allocate the necessary pins to connect your function board  — to allocate AutoDevKit functional boards in a click You can launch it by simply clicking the related button on the right-hand side of AutoDevKit application window.  Note:  To add the Smart Dashboard to your project, follow the steps below:  1. Add SPC58ECxxx Platform Component 2. Add Init Package Component 3. Add Low Level Drivers Component 4. Import the new AEK-MCU-C4MINI1 board component. The Smart Dashboard button will automatically appear on the right-hand side of AutoDevKit application window (Common tasks→Editors for "Application Name").  AEK-POW-BMSCHAIN GUI  The BMS GUI allows you to monitor a 14-cell or 6-cell load, showing the state of charge, voltage, current, temperature, and balancing status of the selected chain and node. In particular, the GUI:  — Monitors single cell voltage and total voltage  — Measures temperature and current  — Shows the balancing status (on/off)  — Signals faults (undervoltage, overvoltage, disconnected cell, etc.)  — Plots of total current and voltage variations over time  Updated components:  AEK-POW-BMSCHAIN  The AEK-POW-BMSCHAIN  The AEK-POW-BMSCHAIN manages multiple instances of BMS chains with nodes based on a minimum of 4 to a maximum of 14 cells. You can use any BMS node (AEK-POW-BMSCBAIN)  BMSWTX, AEK-POW-BMSCC or AEK-POW-BMSCOTX) of the AutoDevKit portfolio in a BMS chain. The AEK-POW-BMSCHAIN driver tool improves acquisition routine timing of voltage current and temperature by implementing a cyclic conversion routine based on an SPI/ISOSPI burst command. The AEK-POW-BMSCHAIN driver tool also improves dual access ring chain topology: you can now attach and detach a single BMS node in real-time. The software package features State-Of-Charge (SoC) and State-Of-Health (SoH) estimation
Minor release (version 2.6.0)	<ul> <li>Updated components:         <ul> <li>AEK-POW-BMSCHAIN</li> <li>The AEK-POW-BMSCHAIN manages multiple instances of BMS chains with nodes based on a minimum of 4 to a maximum of 14 cells. You can use any BMS node (AEK-POW-BMS63EN, AEK-POW-BMSNOTX, AEK-POW-BMSWTX, AEK-POW-BMSCC or AEK-POW-BMSCCTX) of the AutoDevKit portfolio in a BMS chain. The AEK-POW-BMSCHAIN driver tool improves acquisition routine timing of voltage current and temperature by implementing a cyclic conversion routine based on an SPI/ISOSPI burst command. The AEK-POW-BMSCHAIN driver tool also improves dual access ring chain topology: you can now attach and detach a single BMS node in real-time. The software</li> </ul> </li> </ul>
	Note: Use AEK-POW-BMSCC or AEK-POW-BMSCCTX only to create single chains where the first node is the AEK-POW-BMSCCTX and the remaining nodes are exclusively AEK-POW-BMSCC boards.
	Updates: The component now includes AEK-POW-BMSCC and AEK-POW-BMSCCTX to cover all BMS node chain options.  • AEK-MOT-WINH92 The AEK-MOT-WINH92 is a hardware tool designed as window lift driver. Based on the L99H92, an automotive grade H-Bridge gate driver, the AEK-MOT-WINH92 features anti-pinching, provides up to 50 A to drive motors and ensures real-time diagnostic. The AEK-MOT-WINH92 node communicates with an MCU via the SPI protocol.  Updates:

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Туре	Summary
	Bugfix in the driver.
	• AEK-POW-LDOV02J  The AEK-POW-LDOV02J is an evaluation board based on the L99VR02J. It can be used in several electronic applications such as microcontroller supplies, automotive display drivers, sensors, and infotainment processors. The L99VR02J is a DC-DC voltage regulator designed for automotive applications (AEC-Q100 qualified). It can deliver up to 500 mA of load current and consumes as low as 1µA when the regulator is disabled.
	Updates:
	Bugfix in the driver.
	• AEK-COM-10BASET  The AEK-COM-10BASET evaluation board is a powerful tool to explore various vehicle network architectures, leveraging on the new 10BASE-T1S automotive Ethernet protocol implementation and other on-board legacy automotive interfaces (CAN, CAN-FD and SPI). This board merges the innovations brought by the new 10BASE-T1S specification with the high-performance dual-core SPC58EC80E5 Chorus family microcontroller. The AEK-COM-10BASET essentially acts as a gateway to interconnect incompatible communication systems, allowing a vehicle zone sensor/actuator to receive messages in the 10BASE-T1S protocol format even if the zone components are not able to communicate via Ethernet. The board features a PHY-MAC transceiver, which communicates with the MCU via SPI, and a PHY only transceiver requiring an Ethernet MAC to run in the MCU. In our board, these transceivers support only half-duplex communication. Both are connected to the MCU, one using the MMI port while the other using a SPI channel. The firmware embedded in the board can manage a software-implemented Ethernet MAC and runs under FreeRTOS operating system.  Updates:  The following demo names have been changed: SPC58ECxx_RLA AEK-COM-10BASET CAN-ETH application and SPC58ECxx_RLA AEK-COM-10BASET CAN-ETH dateway.
Minor release (version 2.4.0)	AEK-POW-BMSCHAIN     The AEK-POW-BMSCHAIN is a new driver tool that manages multiple instances of BMS chains with nodes based on a minimum of 4 to a maximum of 14 cells. You can compose the chain with any BMS node type (AEK-POW-BMS63EN, AEK-POW-BMSNOTX or AEK-POW-BMSWTX) belonging to the AutoDevKit ecosystem. The AEK-POW-BMSCHAIN driver tool improves the timing of the acquisition routine for voltage current and temperature by implementing a cyclic conversion routine based on an SPI/ISOSPI burst command. The AEK-POW-BMSCHAIN driver tool also improves dual access ring chain topology: you can now attach and detach a single BMS node in real-time. The software package features State-Of-Charge (SoC) and State-Of-Health (SoH) estimation as well as a passive balancing algorithm.  **AEK-MCU-C4MINI1**  The AEK-MCU-C4MINI1 is designed to address Automotive and Transportation applications as well as other applications requiring automotive safety and security levels. The board layout has been conceived to speed up the user development offering an easy prototyping evaluation tool. Despite several connection possibilities due to the MCU numerous peripherals, the user-friendly interface facilitates the interconnection of pre-configured and pin pre-mapped peripherals. The general-purpose and serial connectors have been standardized and grouped by peripheral function types. The MCU peripherals are extended with the VNH7040AY embedded H-bridge motor driver for DC motor control, featuring advanced diagnostic features (short-to-ground, short-to-battery, and open load conditions). The top connection facilitates the debugging phase (for example, when testing signal connections and data

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Туре	Summary
• • • • • • • • • • • • • • • • • • • •	AEK-POW-BMSLV
	The AEK-POW-BMSLV is a hardware tool that implements a BMS low voltage solution with 14 cells. It is based on the L9963E, an automotive-grade AFE chip for battery management applications.  The BMS node communicates with an MCU via ISOSPI protocol using the L9963T.  The AEK-POW-BMSLV includes a PMIC unit based on the SPSB100 (custom version with CAN port) that is able to provide supply voltage to the SPC58EC MCU.
	Updated components:
	AEK-POW-BMS63EN     The AEK-POW-BMS63EN is a hardware tool that implements a BMS node with a minimum of 4 to a maximum of 14 cells based on the L9963E, an automotive-grade AFE chip for battery management applications. The software package includes a State-Of-Charge (SoC) and State-Of-Health (SoH) estimation as well as a passive balancing algorithm.
	Updates:
	Bugfix on the Graphic User Interface for AEK-POW-BMS63EN demos
	AEK-AUD-D903V1     The AEK-AUD-C1D9031 is a very compact AVAS solution based on the SPC582B60E1 Chorus family MCU and FDA903D Class D audio amplifiers that emits warning sounds to alert pedestrians of the presence of e-vehicles. The AEK-AUD-C1D9031 integrates two audio amplifiers in stereo mode or two separate audio channels. The board compact size allows the designer to strategically place different modules around the vehicle to ensure that warning sounds can be heard along the entire vehicle length. All the modules can be controlled by a central MCU via CAN interface.
	Updates:
	Bugfix: I2S signal generation in sync with the bit clock edge.
Minor release (version 2.2.1)	<ul> <li>Updated components:         <ul> <li>SPC582B-DIS</li> <li>The discovery board SPC582B-DIS helps you to discover SPC582B Line Power Architecture® Microcontrollers with full access to CPUs, I/O signals and peripherals at budget price.</li> <li>Bug Fix: Missing demo example</li> </ul> </li> <li>SPC584B-DIS         <ul> <li>The SPC584-DIS is the ideal discovery board for accelerating the development and securing a fast time-to-market, with a perfect balance among performances, functionalities and cost.</li> <li>Bug Fix: Missing demo example</li> </ul> </li> <li>SPC58EC-DIS         <ul> <li>The SPC58EC-DIS is the ideal discovery board for accelerating development and securing a fast time-to-market, with a perfect balance among performances, functionalities and cost.</li> <li>Bug Fix: Missing demo example</li> </ul> </li> </ul>
	New components:
Minor release (version 2.2.0)	AEK-POW-BMSWTX It is a hardware tool that implements a BMS node based on the L9963E with an integrated L9963T ISOSPI <> SPI transceiver on board. The node supports from 4 up to 14 cells. Both ICs are automotive-grade.  The BMS node communicates with an MCU via the ISOSPI protocol using the L9963T.  The software package includes a State-Of-Charge (SoC) and State-Of-Health (SoH) estimation as well as a passive balancing algorithm.  AEK-POW-BMSLV  It is a one board hardware tool implementing a BMS low voltage solution (<60V). It is based on the L9963E, an automotive-grade AFE, L9963T ISOSPI <> SPI transceiver, a PMIC unit based on the SPSB100 to provide supply voltages, and a main controller MCU SPC58EC.

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Туре	Summary
	<ul> <li>AEK-SNS-ASM330LHB         It is a hardware tool based on STEVAL-MKI236A, an adpter board to facilitate the evaluation of MEMS devices in the ASM330LHB product family. The ASM330LHB is a system-in-package featuring a 3-axis digital accelerometer and a 3-axis digital gyroscope with an extended temperature range up to +105 °C. The software package allows controlling sensor devices by implemention of I2C or SPI 4-wire commmunication protocols.     </li> <li>AEK-POW-SPSB081         It is a hardware tool based on SPSB081, a power management system IC providing electronic control modules with enhanced power management functionality, including various standby modes to minimize the power consumption with programmable local and remote wake-up capability, as well as LIN and CAN FD physical communication layers.     </li> <li>AEK-MCU-SPC5LNK         It is a debugger/programmer dongle for SPC5 automotive microcontrollers. It consists of a passive USB-to-JTAG debugger and programmer, which provides a cost-effective, small-size, and fast-prototyping solution for any vehicle applications. This dongle is fully integrated into SPC5-Studio and AutoDevKit Studio IDEs. The JTAG interface ensures an easy plug to any SPC58 family automotive microcontroller boards. In addition a virtual COM port interface enables the host PC to communicate with the microcontroller through UART.     </li> </ul>
	Updated components:  • AEK-MOT-2DCxxx
	The AEK-MOT-2DC70S1 and AEK-MOT-2DC40Y1 are very compact solutions for multi DC motor driving applications embedding all the driver and signal decoding functions on the same board.  Updates:  SPC58ECxx_RLA AEK_MOT_2DCxxx Main ECU - Seat Adj Control demo removed
	AEK-POW-BMS63EN  It is a hardware tool that implements a BMS node with a minimum of 4 to a maximum of 14 cells based on the L9963E, an automotive-grade AFE chip for battery management applications.  Updates:  Bugfix in SPC58NN Bernina demo applications
	AEK-COM-ISOSPI1     This component enables the L9963T, a general purpose SPI to isolated SPI transceiver intended to create a communication bridge between devices located at distance and into different voltage domains. L9963T is able to transfer communication data incoming from a classical 4-wire based SPI interface to a 2-wire isolated interface (and vice versa). Updates:  Bugfix in the available demos
	AEK-AUD-D903V1 It is a very compact AVAS solution based on the SPC582B60E1 Chorus family MCU and FDA903D Class D audio amplifiers that emits warning sounds to alert pedestrians of the presence of e-vehicles. The AEK-AUD-D903V1 integrates two audio amplifiers in stereo mode or two separate audio channels. The board can be controlled by a central MCU via CAN interface. Updates:  Bugfix in the driver  AEK-LCD-ILI9341 This component is dedicated to a commercially available touch LCD display 240x320 pixels with up to 65K colors per pixel based on the ILI9341 controller. The touch circuit is managed by the XPT2046 controller. All communications are based on the SPI protocol. It is possible to manage up to two LCDs in parallel.  Updates: Bugfix in the driver

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Туре	Summary
.,,,,,	• AEK-LCD-LVGL
	LVGL (Light and Versatile Graphics Library) is a popular free and open source embedded graphics library to create nice UIs for any MCU. This LVGL porting allows creating graphics on our AEK-LCD-ILI9341 LCD touch component. Note that the component is visible only if you have added and configured the AEK-LCD-ILI9341.  Updates:  Bugfix in the driver
	New components:
	<ul> <li>AEK-POW-BMS63EN         The AEK-POW-BMS63EN is a hardware tool that implements a BMS node with a min. of 4 to a max. of 14 cells based on the L9963E, an automotive-grade AFE chip for battery management applications.         The software package includes a State-Of-Charge (SoC) and State-Of-Health (SoH) estimation as well as a passive balancing algorithm.     </li> <li>AEK-MOT-MR200G1         The AEK-MOT-MR200G1 is designed as a mini zone controller for the side mirror application. The AEK-MOT-MR200G1 hosts an SPC582B60E1 Chorus 1M microcontroller and an L99DZ200G automotive-grade multi-output driver. Thanks to the integrated L99DZ200G, the board allows controlling different functions related to a vehicle side mirror: folding, unfolding, X-Y mirror inclination, electrochromic dimming, and heating.     </li> </ul>
	Updated components:
Minor release (version 2.1.0)	AEK-LCD-ILI9341 (updated) This component is dedicated to a commercially available touch LCD display 240x320 pixels with up to 65K colors per pixel based on the ILI9341 controller. The touch circuit is managed by the XPT2046 controller. All communications are based on the SPI protocol. It is possible to manage up to two LCDs in parallel. The LCD is implemented in the AutoDevKit board AEK-LCD-DT028V1. Update: Bugfix in the driver  AEK-COM-ISOSPI1 (upgraded) This component enables the L9963T functions. L9963T is a general purpose SPI to isolated SPI transceiver intended to create a communication bridge between devices located at distance and into different voltage domains. L9963T is able to transfer communication data incoming from a classical 4-wire based SPI interface to a 2-wire isolated interface (and vice versa). Updates: Bugfix in the driver Update GUI configuration  AEK-MOT-2DCxxx (updated) The AEK-MOT-2DC70S1 and AEK-MOT-2DC40Y1 are very compact solutions for multi DC motor driving applications embedding all the driver and signal decoding functions on the same board. Update: Bugfix in the driver  AEK-LCD-LVGL (upgraded) LVGL (Light and Versatile Graphics Library) is a popular free and open source embedded graphics library to create nice UIs for any MCU. This LVGL porting allows creating graphics on our AEK-LCD-ILI9341 LCD touch component. Please note that the component is visible only if you have added and configured the AEK-LCD-ILI9341. Update: Bugfix in the driver  Digital Twin Application (NewTwen) (updated) Digital Twin (DT) technology is a Motor Control Kit with digital sensors for motor internal temperature detection where physical sensors cannot be placed. The purpose of this demo is to show an application of Digital Twin (DT), designed and implemented by NEWTWEN. The following devices are required: AEK-MOT-3P99081 board AEK-MOU-C4MLIT1 board
	Brushless DC (BLDC) motor
	Update:
	Bugfix in the driver

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Туре	Summary
	Not recommended for new design (NRND) components:  AEK-POW-100W4V1: board in Mat50 (NRND).  AEK-POW-L5964V1: board in Mat50 (NRND).  AEKD-USBTYPEC1: USB Power delivery demo kit in Mat50 (NRND).  AEK-CON-5SLOTS1: board in Mat50 (NRND).  AEK-CON-AFLVIP2: board in Mat50 (NRND).  AEK-CON-BSPOTV1: board in Mat50 (NRND).  AEKD-AFL001: Adaptive Front-Lighitng kit in Mat50 (NRND).  AEKD-AFLPANEL1: Adaptive Front-Lighitng kit in Mat50 (NRND).  AEKD-AFLIGHT1: Adaptive Front-Lighitng kit in Mat50 (NRND).  Microcontroller supported:  SPC58NN84E7 Chorus line, triple core 200MHz, 6 Mb flash memory, HSM, GTM, ASIL-D  SPC58EC80E5 Chorus line, dual core 180 MHz, 4 Mb flash memory, HSM  SPC584B70E5 Chorus line, single core 120 MHz, 2 Mb flash memory, HSM
Major release (version 2.0.0)	<ul> <li>SPC582B Chorus line, single core 80 MHz, 1 Mb flash memory</li> <li>New components:         <ul> <li>AEK-POW-LDOV02J</li> <li>The L99VR02J is a DC-DC voltage regulator designed for automotive applications (AEC-Q100 qualified). It can deliver up to 500mA of load current and consumes as low as 1µA when the regulator is disabled.</li> <li>AEK-LCD-LVGL</li> <li>LVGL (Light and Versatile Graphics Library) is a popular free and open source embedded graphics library to create beautiful Uls for any MCU. This LVGL porting allows to create graphics on our AEK-LCD-IL19341 LCD touch component. Please note that the LVGL component is only visible if you have added and configured AEK-LCD-IL19341</li> <li>AEK-MCU-BRNLIT1</li> <li>The component supports the SPC58xNx microcontroller (aka Bernina) belonging to a family of devices superseding the SPC5x family. Taking advantage from the legacy of the SPC5x family, SPC58xNx introduces new features coupled with higher throughput to provide substantial reduction of cost per feature and significant power and performance improvement (MIPS per mW)</li> </ul> </li> <li>AEK-COM-ISOSPI1         <ul> <li>This component enables the L9963T functions. L9963T is a general purpose SPI to isolated SPI transceiver intended to create a communication bridge between devices located at distance and into different voltage domains. L9963T is able to transfer communication data incoming from a classical 4-wire based SPI interface to a 2-wire isolated interface (and viceversa)</li> </ul> </li> </ul>
Minor release (version 1.7.0)	<ul> <li>New components:</li> <li>AEK-POW-LDOV01J and AEK-POW-LDOV01S         The L99VR01x is a DC-DC voltage regulator designed for automotive applications (AEC-Q100 qualified). It can deliver up to 200 mA of load current and consumes 1 μA when the regulator is disabled.     </li> </ul>

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Туре	Summary
	New demo released:
	<ul> <li>Al-Car sensing node         This application demonstrates how to use Core2 and Core0 simultaneously. It         implements a versatile deep learning system based on the long-short term         memory (LSTM) recurrent neural network (RNN) able to provide a car state         classification:     </li> </ul>
	<ul> <li>car parked</li> <li>car driving on normal conditions road</li> <li>car driving on a bumpy road</li> <li>car skidding or swerving</li> </ul>
	The main idea is to define a sensing node ECU with an embedded artificial intelligence processing, namely an Al-Car sensing node. The system hosts an SPC58EC Chorus 4M microcontroller able to acquire discrete acceleration variations on a three-axis reference system. The inertial data are retrieved by the AlS2DW12 motion sensor mounted on the AEK-CON-SENSOR1 board. The acquired data is passed to an LSTM RNN able to classify the car state. The result of the classification is shown on an LCD Touch display contained in the AEK-LCD-DT028V1 board. LSTM RNN has been implemented and trained using the TensorFlow 2.4.0 framework (Keras) on the Google Colab environment. The resulting trained neural network has been converted by the SPC5-STUDIO-Al plug-in in an optimized C code library capable of running on an MCU with limited power computing resources.
	Updated component(s):
	<ul> <li>EV-VNx7xxx: Bugfix in the driver</li> <li>EV-VNHx7xxx: Bugfix in the driver</li> <li>Linear-Hall-Effect-Sensor: Bugfix in the driver</li> </ul>
	Not recommended for new design (NRND) components:
	<ul> <li>AEK-POW-100W4V1: board at maturity 50</li> <li>AEK-POW-L5964V1: board at maturity 50</li> <li>AEKD-USBTYPEC1: USB Power Delivery evaluation kit at maturity 50</li> </ul>
	Microcontroller supported:
	<ul> <li>SPC58EC80E5 Chorus line, dual core 180 MHz, 4 Mb flash memory, HSM</li> <li>SPC584B70E5 Chorus line, single core 120 MHz, 2 Mb flash memory, HSM</li> <li>SPC582B Chorus line, single core 80 MHz, 1 Mb flash memory</li> </ul>
	Components updated:
	AEK-MOT-2DCxxx - Bugfix in the driver
	AEK-CON-SENSOR1 - Bugfix in the driver  AEK-SNS VI 52L1X1. New dedicated dame for the power liftgate application.
Minor release (version 1.6.0)	AEK-SNS-VL53L1X1- New dedicated demo for the power liftgate application  Demographical
	Demos updated:     Automatic liftgate demo     Updates:
	<ul> <li>New solution with the AEK-MOT-TK200G1 to drive the linear motor actuators, the X-NUCLEO-NFC06A1 to emulate the keyless scenario, and the AEK-COM-BLEV1 to open/close the trunk with an Android app running on a mobile phone.</li> <li>The demo has been developed with a model-based design using MATLAB®. The model is included in the project folder under the directory "MATLAB®".</li> </ul>
	Microcontroller supported:
	<ul> <li>SPC58EC80E5 Chorus line, dual core 180 MHz, 4 Mb flash memory, HSM</li> <li>SPC584B70E5 Chorus line, single core 120 MHz, 2 Mb flash memory, HSM</li> <li>SPC582B Chorus line, single core 80 MHz, 1 Mb flash memory</li> </ul>

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Туре	Summary
	New component released:
	AEK-MOT-3P99081     The AEK-MOT-3P99081 evaluation board is based on the SPC560P Pictus 32-bit MCU and the L9908 gate driver allowing the control of 6 N-channel FETs for brushless motors in automotive applications. The AEK-MOT-3P99081 supports independent encoder inputs and Hall sensors to detect and control the motor speed.
	<ul> <li>AEK-MOT-TK200G1         The board hosts a L99DZ200G, a door zone system IC providing electronic control modules with enhanced power management functionality. The two low-drop voltage regulators of the device supply the system microcontroller and the external peripheral loads. They also provide enhanced system standby functionality with a programmable local and remote wake-up capability. In addition, the L99DZ200G device features five high-side drivers to supply the LEDs, and two high-side drivers to supply the bulbs, thus noticeably increasing the system-level integration.     </li> <li>X-NUCLEO-NFC06A1         The X-NUCLEO-NFC06A1 NFC card reader expansion board is based on the ST25R3916 device. The expansion board is configured to support ISO14443A/B, ISO15693, FeliCa™, and AP2P communication. The ST25R3916 manages frame coding and decoding in reader mode for standard applications, such as NFC, proximity, and vicinity HF RFID standards. It supports ISO/IEC 14443 Type A and B, ISO/IEC 15693 (single subcarrier only) and ISO/IEC 18092 communication protocols as well as the detection, reading, and writing of NFC Forum Type 1, 2, 3, four, and five tags. This board is the new version of the X-NUCLEO-NFC05A1.     </li> </ul>
	New demo released:
	• None
	Components updated:
	<ul> <li>AEK-MOT-2DCxxx - Bugfix in the Demo</li> <li>AEK-LED-21DISM1 - Bugfix in the Driver</li> <li>AEK-MOT-SM81M1 - Driver optimization</li> </ul>
	AEK-AUD-C1D9031 - Demo updated with the new I <sup>2</sup> C settings
	AEK-SNS-VL53L1X1- Demo updated with the new I <sup>2</sup> C settings
	Demos updated:
Bugfix release (version 1.5.1)	Automatic liftgate demo - Bug fixed
Bugha release (version 1.5.1)	Microcontroller supported:
	<ul> <li>SPC58EC80E5 Chorus line, dual core 180 MHz, 4 Mb flash memory, HSM</li> <li>SPC584B70E5 Chorus line, single core 120 MHz, 2 Mb flash memory, HSM</li> <li>SPC582B Chorus line, single core 80 MHz, 1 Mb flash memory</li> </ul>
	New component released:
	• None
	New demo released:
	• None
	Components updated:
	AEK-MOT-2DC40Y1 and AEK-MOT-2DC70S1 - fixed bug in driver
	Demos updated:
Minor release (version 1.5.0)	• None
	Microcontroller supported:
	<ul> <li>SPC58EC80E5 Chorus line, dual core 180 MHz, 4 Mb flash memory, HSM</li> <li>SPC584B70E5 Chorus line, single core 120 MHz, 2 Mb flash memory, HSM</li> <li>SPC582B Chorus line, single core 80 MHz, 1 Mb flash memory</li> </ul>

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Туре	Summary
71	New component released:
	AEK-LCD-ILI9341     This component is designed for commercially available touch LCD displays (240x320 pixels with up to 65 K colors per pixel) based on the ILI9341 controller, managing up to two LCDs in parallel. The touch circuit is managed by the XPT2046 controller. Communication is based on the SPI protocol.      AEK-COM-NFC05A1
	<ul> <li>New Demo for SPC58EC Chorus 4M</li> </ul>
	• SPC5-MCTK-01
	<ul> <li>New Demo for SPC58ECxx (Chorus 4M)</li> <li>The demo implements a CAN bus communication between an SPC58EC Chorus MCU and an SPC5-MCTK-01 automotive three-phase motor control kit based on the SPC560P Pictus MCU and L9907 predriver.</li> <li>Through CAN messages, it is possible to perform basic operations on the motor, such as ramp, acceleration, deceleration, and brake. In addition, it is possible to read and set registers related to the motor parameters. A serial terminal can be used to track and verify performed operations.</li> </ul>
	Important: Before testing this demo, update the firmware on the SPC5-MCTK-01 platform by downloading the demo for the SPC560P Pictus MCU from AutoDevKit to enable the CAN port.
	New demo released:
	Automatic liftgate demo     The automatic liftgate demo includes motor actuation for automatic car trunk opening. This innovative solution implements a specific foot gesture recognition with Time-of-Flight (ToF) sensors. The system has been proved reliable in different light, weather and soil conditions, and feet sizes.
	Components updated:
	<ul> <li>AEK-POW-100W4V1 - fixed bug in driver</li> <li>AEK-LED-21DISM1 - fixed bug in driver</li> <li>AEK-MOT-2DC40Y1 and AEK-MOT-2DC70S1 - fixed bug in driver</li> </ul>
	Demos updated:
	• None
	Microcontroller supported:
	<ul> <li>SPC58EC80E5 Chorus line, dual core 180 MHz, 4 Mb flash memory, HSM</li> <li>SPC584B70E5 Chorus line, single core 120 MHz, 2 Mb flash memory, HSM</li> <li>SPC582B Chorus line, single core 80 MHz, 1 Mbflash</li> </ul>
	New component released:
Minor release (version 1.4.0)	AEK-AUD-C1D9031     The AEK-AUD-C1D9031 is a very compact AVAS solution based on SPC582B60E1 Chorus family MCU and FDA903D Class D audio amplifiers that emit warning sounds to alert pedestrians of the presence of e-vehicles. The AEK-AUD-C1D9031 integrates two audio amplifiers in stereo mode or two separate audio channels. The board compact size allows the designer to strategically place different modules around the vehicle to ensure that warning sounds can be heard along the entire vehicle length. All the modules can be controlled by a central MCU via the CAN interface.      AEK-COM-NFC05A1
	The AEK-COM-NFC05A1 implements the driver for X-NUCLEO-NFC05A1. This board is configured to support ISO14443A/B, ISO15693, FeliCa™, and AP2P communication. The key embedded ST25R3911B IC manages frame coding and decoding in reader mode for standard applications, such as NFC, proximity, and vicinity HF RFID standards.
	AEK-SNS-VL53L1X1     The AEK-SNS-VL53L1X1 implements the driver for VL53L1X-SATEL. The onboard Time-of-Flight (ToF) laser-ranging sensor, belonging to the ST FlightSense product family, is the fastest miniature ToF sensor on the market with accurate ranging up to 4 m and fast ranging frequency up to 50 Hz.

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Туре	Summary
	AEK-CON-SENSOR1 AEK-CON-SENSOR1 connector board for automotive MEMS sensors supports the DIL24 socket boards. The related software components can be used to manage the following MEMS families through the high-level APIs:  AIS2DW12 - ultra-low-power 3-axis accelerometer for automotive applications  ASM330LHH - automotive 6-axis inertial module: 3-axis accelerometer and 3-axis gyroscope  IIS2ICLX - high accuracy, high resolution, low power, 2-axis digital inclinometer with embedded machine learning core  IIS3DWB - ultra-wide bandwidth, low-noise, 3-axis digital vibration sensor
	New demo released:  None
Minor release (version 1.3.0)	Components updated:  AEK-POW-L5964V1 - fixed bug in driver  AEK-LED-21DISM1 - fixed bug in driver  Demos updated:  AEK-AUD-D903V1 - Bugfix in the Demo example code  AEK-POW-L5964V1 - Bugfix in the Demo example code  AEK-POW-L5964V1 - Bugfix in the Demo example code  Adaptive front-lighting Demo - Bug fixed  Microcontroller supported:  SPC58EC80E5 Chorus line, dual core 180 MHz, 4 Mb flash memory, HSM  SPC584B70E5 Chorus line, single core 120 MHz, 2 Mb flash memory, HSM  SPC582B Chorus line, single core 80 MHz, 1 Mbflash  New component released:  AEK-POW-100W4V1  The AEK-POW-100W4V1 expansion board is designed for power car or truck body applications requiring different voltages, such as USB-PD or infotainment. The two buck converters available from the L5964 device are combined to achieve up to 5A of current with 20 V to reach 100 W power in a single and compact device. The output channel can deliver a fixed or variable output voltage via MCU control.  AEK-MOT-2DCxxx  The AEK-MOT-2DCXXX  The AEK-MOT-2DCT0S1 and AEK-MOT-2DC40Y1 are very compact solutions for multi-DC motor-driving applications embedding all the driver and signal-decoding functions on the same board. Together with current sensing capability, the AEK-MOT-2DCxxx boards have three independent encoder inputs. The DC motor drivers have separated half-bridging driving thus allowing up to three separated motors with only two devices. Clearly, proper driving sequences have to be generated to avoid undesired activation of specific motors. For each motor 15 A can be provided with AEK-MOT-2DC70S1 while 35 A can be provided with AEK-MOT-2DC40Y1. On the boards, two additional high side drivers are available featuring 85 A and 25 A output currents.
Minor release (version 1.2.0)	Components updated:  All components have been updated to comply with SPC5-STUDIO 6.0.0  AEK-AUD-D903V1 – added monitoring of I <sup>2</sup> S test signal for real-time current monitoring  Demos updated:  Demo for AVAS with sound generated by a mathematical function  Microcontroller supported:  SPC58EC80E5 Chorus line, dual core 180 MHz, 4 Mb flash memory, HSM  SPC584B70E5 Chorus line, single core 120 MHz, 2 Mb flash memory, HSM  SPC582B Chorus line, single core 80 MHz, 1 Mbflash  New component released:  None

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Туре	Summary
	New demo released:
	None
	Components updated:
	· · ·
	<ul> <li>EV-VNx7x (added methods for current sensing and output current; ADC can now be user-defined at 3.3 V or 5 V)</li> </ul>
	EV-VNHx7xx (added methods for current sensing and output current; ADC can now be user-defined at 3.3 V or 5 V)
	<ul> <li>AEK-POW-L5964V1 (removed warnings, driver optimization, changed picture)</li> <li>Linear Hall-effect sensor (ADC can now be user-defined at 3.3 V or 5 V)</li> </ul>
	Demos updated:
Bug fix release (version 1.1.1)	Adaptive Front Lighting (AFL) Demo - updated EV-VNx7xxx component
Lag in release (release in in i)	Microcontroller supported:
	<ul> <li>SPC58EC80E5 Chorus line, dual core 180 MHz, 4 Mb flash memory, HSM</li> <li>SPC584B70E5 Chorus line, single core 120 MHz, 2 Mb flash memory, HSM</li> <li>SPC582B Chorus line, single core 80 MHz, 1 Mbflash</li> </ul>
	New component released:
	• None
	New demo released:
	None
	Components updated:
	<ul> <li>AEK-LED-21DISM1 (removed warnings and driver optimization)</li> <li>AEK-MOT-SM81M1 (removed warnings and driver optimization)</li> </ul>
	EV-VNx7x (removed warnings and driver optimization)
	EV-VNHx7xx (removed warnings and driver optimization)
	AEK-POW-L5964V1 (removed warnings, driver optimization, changed picture)
	AEK-SNS-LIDA1M8 (removed warnings and driver optimization)
	Linear Hall-effect sensor (removed warnings and driver optimization)
	Demos updated:
	Adaptive Front Lighting (AFL) Demo - code optimized
	Microcontroller supported:
	<ul> <li>SPC58EC80E5 Chorus line, dual core 180 MHz, 4 Mb flash memory, HSM</li> <li>SPC584B70E5 Chorus line, single core 120 MHz, 2 Mb flash memory, HSM</li> <li>SPC582B Chorus line, single core 80 MHz, 1 mbflash</li> </ul>
	New component released:
	• AEK-COM-BLEV1
Minor release (version 1.1.0)	The AEK-COM-BLEV1 evaluation platform is based on the BlueNRG-1, low-power Bluetooth® smart system on chip, compliant with the Bluetooth® specification and supporting master, slave and simultaneous master-and-slave roles.
	AEK-COM-GNSST31     The AEK-COM-GNSST31 represents an affordable, easy to use, global navigation satellite system (GNSS) module, embedding a Teseo-LIV3F single die standalone positioning receiver IC, usable in different configurations in your SPC5-STUDIO project.
	• AEK-AUD-D903V1
	It is a flexible class D audio amp with I <sup>2</sup> S interface for sound and I <sup>2</sup> C interface for programming. It features superb protection and status reporting.
	New demo released:
	Demo for AEK-COM-GNSST31
	Demo for AEK-COM-BLEV1
	Demo for AEKD-BLINDSPOTx1  Page for AVAS many.
	Demo for AVAS mono     Demo for AVAS stereo
	Demo for AVAS engine sound simulator

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# **Revision history**

Table 3. Document revision history

Date	Version	Changes
13-Sep-2019	1	Initial release.
08-Nov-2019	2	Added details regarding STSW-AUTODEVKIT minor release version 1.0.1.
19-Feb-2020	3	Added details regarding STSW-AUTODEVKIT version 1.1.0.
30-Mar-2020	4	Added details regarding STSW-AUTODEVKIT version 1.1.1.
22-Jun-2020	5	Added details regarding STSW-AUTODEVKIT version 1.2.0.
08-Oct-2020	6	Added details regarding STSW-AUTODEVKIT version 1.3.0.
09-Feb-2021	7	Added details regarding STSW-AUTODEVKIT minor release version 1.4.0.
15-Mar-2021	8	Added details regarding STSW-AUTODEVKIT minor release version 1.5.0.
25-May-2021	9	Added details regarding STSW-AUTODEVKIT bugfix release version 1.5.1.
06-Dec-2021	10	Added details regarding STSW-AUTODEVKIT minor release version 1.6.0.
14-Mar-2022	11	Added details regarding STSW-AUTODEVKIT minor release version 1.7.0.
04-Nov-2022	12	Added AutoDevKit Studio 2.0.0 replacing AutoDevKit library.
03-Apr-2023	13	Added AutoDevKit Studio minor release 2.1.0.
10-Nov-2023	14	Added AutoDevKit Studio minor release 2.2.0.
10-1100-2023		Updated Section 2.3 Supported connector boards and Section 3 Previous versions.
22-Nov-2023	15	Added AutoDevKit Studio minor release 2.2.1.
		Added AutoDevKit Studio minor release 2.4.0.
11-Jun-2024	16	Updated Introduction, Table 1. STSW-AUTODEVKIT release summary, Section 1.1: System requirements and Section 2.2: Supported microcontroller boards.
		Added AutoDevKit Studio minor release 2.6.0.
09-Apr-2025	17	Updated Section Introduction, Table 1. STSW-AUTODEVKIT release summary, Section 2.1: Known
		limitations, Section 2.2: Supported microcontroller boards and Section 3: Previous versions.
13-May-2025	18	Added AutoDevKit Studio minor release 2.6.1.
01-Dec-2025	19	Added AutoDevKit Studio minor release 2.7.0.

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