

RN0118

Release note

STSW-AUTODEVKIT - AutoDevKit library release 1.6.0

Introduction

This document is updated periodically to record STSW-AUTODEVKIT updates, known problems, and limitations.

Important:

AutoDevKit works only on the SPC5-STUDIO version 6.0.0. Download the latest version from www.st.com/spc5studio.

License details

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

For further details, refer to SLA0098.

To install the AutoDevKit:

- Select [help]>[Install new Software]
- Choose the right components
- Press [Next] and follow the instructions

Note:

Ensure you unzip the STSW-AUTODEVKIT package file before proceeding with the installation. Figure 1. Unzipping the AUTODEVKIT package

type filter text			
Name	Version		
V DI BUI AUTODEVKIT			
🗹 🖗 Autodevkit feature Group	1.1.0.20200210170944		
SPC5-AEK_REALESE_NOTE_Support_Feature	1.2.0.20200210170928		
SPC5-RLA_AEK-AUD-D903V1_Support_Feature	1.0.0.20200210170929		
SPC5-RLA_AEK-LED-21DISM1_Support_Feature	1.2.0.20200210170931		
🗹 🍫 SPC5-RLA_AEK_MOT_SM81M1_Support_Feature	1.2.0.20200210170935		
🗹 🍫 SPC5-RLA_AEK_POW_L5964V1_Support_Feature	1.2.0.20200210170932		
🗹 🍫 SPC5-RLA_AEK_SNS_LIDA1M8_Support_Feature	1.2.0.20200210170934		
🗹 🍫 SPC5-RLA_EV-VNHx7xxx_Support_Feature	1.2.0.20200210170936		
🗹 🍫 SPC5-RLA_EV_VNx7xxx_Support_Feature	1.2.0.20200210170938		
🗹 🍫 SPC5-RLA_Linear_Hall_Effect_Sensor_Support_Feature	1.2.0.20200210170939		
SPC5-RLA_STEVAL_IDB007V2_Support_Feature	1.1.0.20200210170941		
Image: SPC5-RLA_TESEO_LIV3F_Support_Feature	1.1.0.20200210170942		

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een my installation the same and modify the items being installed to Indate my installation to be compatible with the items being installed	be compatible		
now original error and build my own solution:			
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🗴 Will be uninstalled			
Autodevkit feature		com.st.tools.autodevkit.feature.gr	
Board fragment for SPC582BXX		com.st.tools.spc5.wizard.board.sp	
Board fragment for SPC584BXX		com.st.tools.spc5.wizard.board.sp	
Board fragment for SPC58ECXX		com.st.tools.spc5.wizard.board.sp	
Boardtree Feature		com.st.tools.spc5.wizard.board1m	
n Boardtree Feature		com.st.tools.spc5.wizard.board.fea	
🚯 Boardtree Feature		com.st.tools.spc5.wizard.board2m	
SPC5-AutoDevKit_RLA_Support_Feature		com.st.spc5.components.spc5rla.a	
SPC5-AutoDevKit1M_RLA_Support_Feature		com.st.spc5.components.spc5rla.a	
SPC5-AutoDevKit2M_RLA_Support_Feature		com.st.spc5.components.spc5rla.a	
SPC5xx Linear_Hall_Effect_Sensor Repo Demos		com.st.spc5.components.Linear_H	
Will be upgraded/downgraded			
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SPC5-RLA_AEK_MOT_SM81M1_Support_Feature	1.2.0.20200210170935	com.st.spc5.components.spc5rla	
SPC5-RLA_AEK_POW_L5964V1_Support_Feature SPC5-RLA_AEK_POW_L5964V1_SUPPORT_FEATURE SPC5-RLA_AEK_POW_L5964V1_SUPPORT_FEATURE SPC5-RLA_AEK_POW_L5964V1_SUPPORT_FEATURE SPC5-RLA_AEK_POW_L5964V1_SUPPORT_FEATURE SPC5-RLA_AEK_POW_L5964V1_SUPPORT_FEATURE SPC5-RLA_AEK_POW_L5964V1_SUPPORT_FEATURE SPC5-RLA_AEK_POW_L5964V1_SUPPORT_FEATURE SPC5-RLA_AEK_POW_L5964V1_SUPPORT_FEATURE SPC5-RLA_AEK_POW_L5964V1_SUPPOW_L5964V1_SUPPONT_F	1.2.0.20200210170932	com.st.spc5.components.spc5rla	
SPC5-RLA_AEK_SNS_LIDA1M8_Support_Feature	1.2.0.20200210170934	com.st.spc5.components.spc5rla	
SPC5-RLA_AEK-LED-21DISM1_Support_Feature	1.2.0.20200210170931	com.st.spc5.components.spc5rla	
SPC5-RLA_EV_VNx7xxx_Support_Feature	1.2.0.20200210170938	com.st.spc5.components.spc5rla.E	
SPC5-RLA_EV-VNHx7xxx_Support_Feature SPC5-RLA_EV-VNHx7xxx_SUpport_Feature SPC5-RLA_EV-VNHx7xxx_SUpport_Feature SPC5-RLA_EV-VNHx7xxx_SUpport_Feature SPC5-RLA_EV-VNHx7xxx_SUpport_Feature SPC5-RLA_EV-VNHx7xxx_SUpport_Feature SPC5-RLA_EV-VNHx7xxx_SUpport_Feature SPC5-RLA_EV-VNHx7xxx_SUpport_Feature SPC5-RLA_EV-VNHx7xxx_SUpport_Feature SPC5-RLA_EV-VNHx7xx_SUpport_Feature SPC5-RLA_EV-VNHx7xx_SUpport_Feature SPC5-RLA_EV-VNHx7xx_	1.2.0.20200210170936	com.st.spc5.components.spc5rla.E	
SPC5-RLA_Linear_Hall_Effect_Sensor_Support_Feature	1.2.0.20200210170939	com.st.spc5.components.spc5rla.L	
🕂 🖶 Will be installed			
🖚 Autodevkit feature Group	1.1.0.20200210170944	com.st.tools.autodevkit.feature.gr	
SPC5-RLA_AEK-AUD-D903V1_Support_Feature	1.0.0.20200210170929	com.st.spc5.components.spc5rla	
SPC5-RLA_STEVAL_IDB007V2_Support_Feature	1.1.0.20200210170941	com.st.spc5.components.spc5rla.S	
SPC5-RLA_TESEO_LIV3F_Support_Feature	1.1.0.20200210170942	com.st.spc5.components.spc5rla.T	

Figure 2. Updating the installation to be compatible with the unzipped file

Table 1. STSW-AUTODEVKIT release summary

Туре	Summary
Minor release (version 1.6.0)	 Components updated: AEK-MOT-2DCxxx - Bugfix in the driver AEK-CON-SENSOR1 - Bugfix in the driver AEK-SNS-VL53L1X1- New dedicated demo for the power liftgate application Demos updated: Automatic liftgate demo Updates: 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. The demo has been developed with a model-based design using MATLAB. The model is included in the project folder under the directory "Matlab".
	Microcontroller supported:
	SPC58EC80E5 Chorus line, dual core 180 MHz, 4 Mb flash, HSM
	SPC584B70E5 Chorus line, single core 120 MHz, 2 Mb flash, HSM
	SPC582B Chorus line, single core 80 MHz, 1 Mb flash

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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.
	 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.
	 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, 4, and 5 tags. This board is the new version of the X-NUCLEO-NFC05A1.
	New demo released: • None

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.

Software updates

Software updates and all the latest documentation can be downloaded from the STMicroelectronics website www.st.com:

- for integrated development system, download SPC5-STUDIO
- for flasher and debugger, download SPC5-UDESTK-SW
- for AutoDevKit plugin, download STSW-AUTODEVKIT



1 General information

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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.

As per any other SPC5-STUDIO component, 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

- SPC5-STUDIO version 6.0.0 or higher
- SPC5-UDESTK debugging software for Windows
- 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.

2 Recent AutoDevKit updates

2.1 Known limitations

- AEK-USB-2TYPEC1 pin-out is fixed and configuration is compatible only with AEK-MCU-C4MLIT1 and SPC58EC-DISP boards.
- AEK-USB-2TYPEC1 component is not available.
- USB-PD version 2.0 demo is employing free RTOS and customized SPI low-level driver.
- Demo for AEK-POW-L5964V1 for USB-PD is pin-out fixed and configuration is compatible only with AEK-MCU-C4MLIT1 and SPC58EC-DISP boards.
- Demo for AEK-POW-L5964V1 for adjustable DC-DC pin-out is not fixed but API functionalities are limited.

2.2 Supported microcontroller boards

- AEK-MCU-C4MLIT1 Light version of SPC58EC-DISP
- AEK-MCU-C1MLIT1 Light version of SPC582B-DIS
- 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™ connector

2.3 Supported connector boards

- AEK-CON-AFLVIP2 Adaptive Front-Lighting connector board with EV-VNx7x slot
- AEK-CON-5SLOTS1 Connector board for discovery boards with 4x37 connector allowing pin re-arranging and re-ordering
- AEK-CON-BSPOTV1 Connector dedicated to detection in blind-spot application educational tool
- AEK-CON-SENSOR1 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.

3 Previous versions

Table 2. STSW-AUTODEVKIT release history

Туре	Summary
Bugfix release (version 1.5.1)	Components updated: AEK-MOT-2DCxxx - Bugfix in the Demo AEK-LED-21DISM1 - Bugfix in the Driver AEK-MOT-SM81M1 - Driver optimization AEK-AUD-C1D9031 - Demo updated with the new I ² C settings AEK-SNS-VL53L1X1- Demo updated with the new I ² C settings Demos updated: Automatic liftgate demo - Bug fixed Microcontroller supported: SPC58EC80E5 Chorus line, dual core 180 MHz, 4 Mb flash, HSM SPC584B70E5 Chorus line, single core 120 MHz, 2 Mb flash, HSM SPC582B Chorus line, single core 80 MHz, 1 Mb flash New component released: None New demo released:
Minor release (version 1.5.0)	 None Components updated: AEK-MOT-2DC40Y1 and AEK-MOT-2DC70S1 - fixed bug in driver Demos updated: None Micro-controller supported: SPC58EC80E5 Chorus line, dual core 180 MHz, 4 Mb flash, HSM SPC58EC80E5 Chorus line, single core 120 MHz, 2 Mb flash, HSM SPC582B Chorus line, single core 120 MHz, 2 Mb flash, HSM SPC582B Chorus line, single core 80 MHz, 1 Mb flash New component released: AEK-LCD-LL9341 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 New Demo for SPC58EC Chorus 4M SPC5-MCTK-01 New Demo for SPC58ECXx (Chorus 4M) 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 SPC560P Pictus MCU and L9907 pre-driver. 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. Important: Before testing this demo, update the firmware on the SPC5-MCTK-01 platform by downloading the demo for SPC560P Pictus MCU from AutoDevKit to enable the CAN port.

Туре	Summary
	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.
Minor release (version 1.4.0)	 Components updated: AEK-POW-100W4V1 - fixed bug in driver AEK-LED-21DISM1 - fixed bug in driver AEK-LED-21DISM1 - fixed bug in driver AEK-MOT-2DC40Y1 and AEK-MOT-2DC70S1 - fixed bug in driver Demos updated: None Micro-controller supported: SPC58E280E5 Chorus line, dual core 180 MHz, 4 Mb flash, HSM SPC582B Chorus line, single core 120 MHz, 2 Mb flash, HSM SPC582B Chorus line, single core 120 MHz, 2 Mb flash, HSM SPC582B Chorus line, single core 80 MHz, 1 Mbflash New component released: AEK-AUD-C1D9031 The AEK-AUD-C109031 is a very compact AVAS solution based on 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-C109031 integrates two audio amplifiers in stereor 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. 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-CON-SENSOR1 AEK-CON-SENSOR1 AEK-CON-SENSOR1 AEK-CON-SENSOR1 AEK-CON-SENSOR1 AEK-CON-SENSOR1 AIS2DW12 - ultra-low-power 3-axis accelerometer for automotive applications ASM330LHH - automotive 6-axis inertial module: 3D accelerometer and 3D gyroscope IIS2ICUX - high accuracy, high resolution, low power, 2-a
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 • Adaptive Front-Lighting Demo - Bug fixed

Туре	Summary
	Micro-controller supported:
	SPC58EC80E5 Chorus line, dual core 180 MHz, 4 Mb flash, HSM
	SPC584B70E5 Chorus line, single core 120 MHz, 2 Mb flash, HSM
	SPC582B Chorus line, single core 80 MHz, 1 Mbflash
	New component released:
	AEK-POW-100W4V1 The AEK POW 100W4V1 avanaging beard is designed for newsrapt 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-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. 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 sequence 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.
	New demo released:
	None
	Components updated:
	All components have been updated to comply with SPC5-STUDIO 6.0.0
	 AEK-AUD-D903V1 – added monitoring of I²S test signal for real-time current monitoring
	Demos updated:
	Demo for AVAS with sound generated by a mathematical function
	Micro-controller supported:
Minor release (Version 1.2.0)	 SPC58EC80E5 Chorus line, dual core 180 MHz, 4 Mb flash, HSM SPC584B70E5 Chorus line, single core 120 MHz, 2 Mb flash, HSM
	SPC582B Chorus line, single core 80 MHz, 1 Mbflash
	New component released:
	• None
	New demo released:
	• None
	Components updated:
	 EV-VNx7x (added methods for current sensing and output current; ADC can now be user defined at 3.3 V or 5 V)
	 EV-VNHx7xx (added methods for current sensing and output current; ADC can now be user defined at 3.3 V or 5 V)
	 AEK-POW-L5964V1 (removed warnings, driver optimization, changed picture) Linear Hall-effect sensor (ADC can now be user defined at 3.3 V or 5 V)
Bug fix release (version 1.1.1)	Demos updated:
	Adaptive Front Lighting (AFL) Demo - updated EV-VNx7xxx component
	Micro-controller supported:
	SPC58EC80E5 Chorus line, dual core 180 MHz, 4 Mb flash, HSM
	SPC584B70E5 Chorus line, single core 120 MHz, 2 Mb flash, HSM SPC582P Chorus line, single core 90 MHz, 1 Mbflash
	None

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Туре	Summary
	New demo released:
	• None
	 Components updated: AEK-LED-21DISM1 (removed warnings and driver optimization) AEK-MOT-SM81M1 (removed warnings and driver optimization) 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) Linear Hall-effect sensor (removed warnings and driver optimization) Demos updated: Adaptive Front Lighting (AFL) Demo - code optimized Micro-controller supported: SPC58EC80E5 Chorus line, dual core 180 MHz, 4 Mb flash, HSM SPC584B70E5 Chorus line, single core 120 MHz, 2 Mb flash, HSM SPC582B Chorus line, single core 80 MHz 1 Mbflash
Minor release (version 1.1.0)	 New component released: AEK-COM-BLEV1 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 I²S interface for sound and I²C interface for programming. It features superb protection and status reporting.
	Demo for AEK-COM-GNSST31 Demo for AEK-COM-BLEV1 Demo for AEKD-BLINDSPOTx1 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.

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Click to View Pricing, Inventory, Delivery & Lifecycle Information:

STMicroelectronics: AEK-CON-SENSOR1