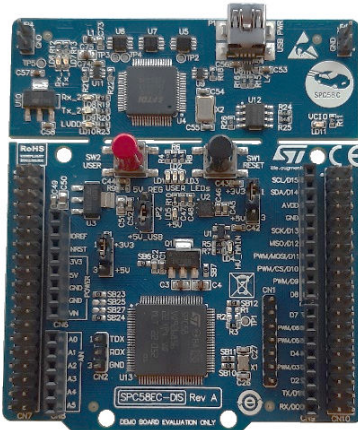# SPC58EC-DIS: discovery kit featuring SPC58 C-line MCU in an eQFP100 package

Features

- Featuring SPC58EC80E3, a high performance e200z420n3 dual core 32-bit power architecture technology CPU 180 MHz, 1088 KB 4224 KB (4096KB code flash memory + 128 KB data flash memory) 384 KB SRAM in an eTQFP100 package
- On-board debugger and dedicated optional connector to plug a standalone JTAG debugger
- USB virtual communication port
- Two types of extension resources:
  - Extension headers for all device pins and for quick connection to prototyping expansion boards, additional modules, and evaluation probing
  - Arduino Uno revision 3 connectivity
- Flexible board power supply:
  - USB port (mini B - 5 V)
  - External sources (DC): from 7 V to 12 V, 5 V or 3.3 V
- Two push buttons: USER and RESET
- Eight LEDs:
  - 3 for integrated programmer/debugger
  - 3 LEDs user
  - 1 for reset
  - 1 power LED: +5 V

Product status link
SPC58EC-DIS

Product summary	
Order code	SPC58EC-DIS
Reference	SPC58EC-DIS discovery board with SPC58EC80E3

Description

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. Featuring SPC58 Chorus 4C line microcontrollers, it addresses a wide range of automotive applications such as body and gateway, in which safety and security needs are growing.

The SPC58EC-DIS allows full access to peripherals such as DSPI, LINFlexD, ISO CAN-FD. The new features satisfy the ASIL-B requirements.

The board provides full access to all CPU's signals and GPIO's, and offers compatibility with an Arduino shield, through dedicated connectors. Dedicated connectors allow plugging shields Arduino UNO-compatible; this feature makes it easy to expand the functionality of the SPC58EC-DIS.

The board integrates a programmer/debugger that allows debugging and programming the microcontroller via USB cable. In addition, it allows enabling a UART communication channel (USB virtual COM port). It offers easy debug with the on-board PLS debugger-programmer. PLS universal debug engine software is available for free download at https://www.st.com/en/product/spc5-udestk-sw and includes a code size limited full feature evaluation license.

Additional SW licenses are available at https://www.st.com/en/product/spc5-udedebg

A 1x7 JTAG header connector is available to program and debug the microcontroller by using an external tool.

DB4960 - Rev 1 - March 2023
For further information contact your local STMicroelectronics sales office.

www.st.com

STMicroelectronics' SPC5-STUDIO, is an eclipse-based integrated development environment, providing a comprehensive framework to design, build and deploy your own embedded application. SPC5-STUDIO is available for free download www.st.com/spc5studio and includes multiple free application firmware examples ready for use.

Learn more and share your experience joining the STMicroelectronics community at https://community.st.com.

Revision history

Table 1. Document revision history

Date	Revision	Changes
08-Mar-2023	1	Initial release.

IMPORTANT NOTICE – READ CAREFULLY