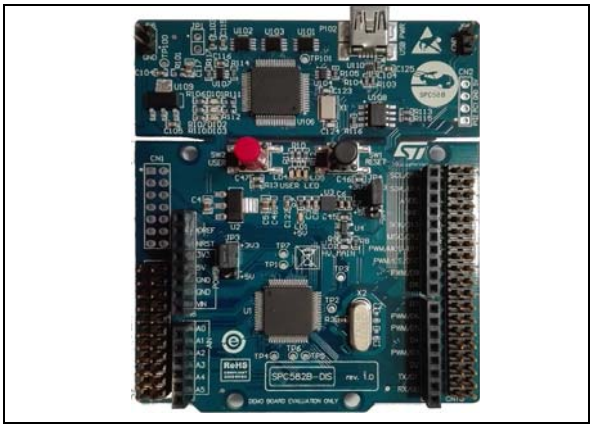
SPC582B-DIS

SPC582B-DIS Discovery board

Data brief



Features

- SPC582B 32-bit z2 core @80Mhz CPU, 32-bit Power Architecture® Technology CPU, 1MB Code Flash in eQFP64 package.
- On-board USB-JTAG PLS debugger and dedicated optional connector to plug a stand-alone JTAG debugger.
- USB Virtual Communication port.
- Two types of extension resources:
  - Arduino Uno Revision 3 connectivity
  - Extension headers for all device pins and for quick connection to prototyping expansion boards, additional modules and evaluation probing.
- Flexible board power supply:
  - USB port (mini B - 5V)
  - external sources (DC): 7÷12 V, 5V or 3.3V and 5V
- Two push buttons: USER and RESET
- Eight LEDs
  - 3 Integrated Programmer/Debugger
  - 3 LEDs User
  - 1 Reset
  - 1 Power LED: +5V
- 40MHz Crystal

Description

The discovery board SPC582-DIS helps you to discover SPC58B Line Power Architecture® Microcontrollers with full access to CPUs, I/O signals and peripherals at budget price.

Dedicated connectors allow plugging Arduino shields (Arduino-compatible).

Free ready-to-run application firmware examples are available inside SPC5Studio to support quick evaluation and development.

SPC5Studio includes visual configurable code generation engine, board support package (BSP), startup routines, interrupt services, free RTOS (optional) and a full set of low-level drivers. SPC5Studio includes a free GCC compiler. SPC5Studio is available for free download.

The SPC58 B Line is designed to address automotive vehicle body and gateway applications but as well as industrial oriented applications.

The SPC58 B devices feature specific functions to make automotive applications with integrity level up to ASIL-B of ISO 26262. An E2E Community is available on ST WEB.

Table 1. Device summary

Order Code	Reference
SPC582B-DIS	SPC582B-DIS Discovery board with SPC582B60E1

1 System requirements, HW and SW resources

1.1 System requirements

- Windows PC

1.2 Development toolchain

SPC5Studio.

1.3 Demonstration software

Demonstration software is preloaded in the MCU flash memory for easy demonstration of the SPC582B-DIS in stand-alone mode. For more information and to download the latest version available, please refer to ST web.

2 Revision history

Table 2. Document revision history

Date	Revision	Changes
19-Apr-2017	1	Initial release.
08-Sep-2017	2	Updated *Section 1.1: System requirements*