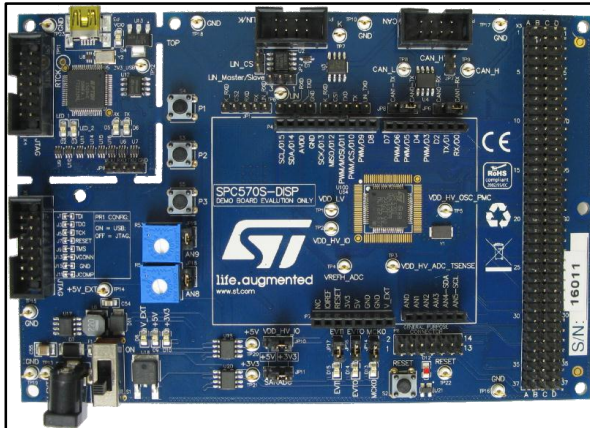


SPC570S-DISP Discovery+ evaluation board

Data brief



- JTAG interface (2x7 male 100mil)
- USB port (mini - B)
- 40 MHz crystal
- Board size 105 x 150mm

Description

The SPC57S-Discovery board helps you to discover SPC57 S Line Power Architecture[®] Microcontrollers with full access to CPUs, I/O signals and peripherals such as CAN, UART, JTAG, K-Line, LIN at budget price. 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 SPC57 S Line is designed to address all Automotive Applications but as well industrial safety oriented applications. The SPC570S devices feature specific functions to make automotive applications with integrity level up to ASIL-D of ISO 26262. An E2E Community is available on ST WEB.

Features

- The SPC570S50Ex 32-bit CPU implements two e200z0h processor cores:
 - Core_0 - Main core (80MHz)
 - Core_0s – Checker (safety)
- On-board USB-JTAG PLS debugger and HW selection mode to use it or a third party JTAG debuggers.
- 256 kByte code size limited debugging free of charge evaluation license included.
- Board power supply through the USB bus (5 V supply voltage) or external +12 V PSU.
- User push buttons and LEDs
- Reset button
- 2 potentiometers for ADC evaluation
- Extension headers (4x37 pin - 100 mil) for all device pins and for quick connection to prototyping expansion boards, additional modules and evaluation probing.

Table 1: Device summary

Order code	Reference
SPC570S-DISP	SPC57S-Discovery with SPC570S50E1

1 System requirements,HW and SW resources

1.1 System requirements

- Windows PC
- USB type A to mini-B cable (included)

1.2 Development toolchain

- SPC5Studio

1.3 Demonstration software

Demonstration software is preloaded in the MCU flash memory for easy demonstration of the SPC570S-DISP in stand-alone mode. For more information and to download the latest version available, please refer to ST web.

2 Revision history

Table 2: Revision history

Date	Revision	Changes
09-Feb-2016	1	Initial release.
05-Apr-2016	2	Updated " <i>Features</i> " and " <i>Device summary</i> ".

IMPORTANT NOTICE – PLEASE READ CAREFULLY

STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2016 STMicroelectronics – All rights reserved

Mouser Electronics

Authorized Distributor

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

[STMicroelectronics:](#)

[SPC570S-DISP](#)