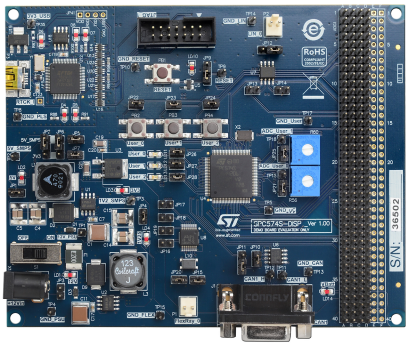
SPC574S-DISP

Data brief

SPC574S-DISP discovery board



Product status link
SPC574S-DISP

Product summary	
Order code	SPC574S-DISP
Reference	SPC57 4S Line Discovery with SPC574S64E3

Features

- Featuring SPC574S64E3, a 32-bit power architecture microcontroller with dual core e200z4d, 1.5 MB flash, eTQFP100 pins
- 1 CAN FD port (DB9 connector)
- 1 FlexRay, 1 line port (with transceiver)
- PLS integrated programmer - debugger
- JTAG interface: (standard 7 x 2 male, 0.1")
- 1 USB virtual COM port
- 3 push buttons, 3 LEDs for user purposes, reset push button
- 2 potentiometers for ADC quick evaluation
- All GPIOs and signals accessible by a 4 x 40, 0.1" pin grid array allowing connection of an additional board
- Board supply: 12 VDC (external power supply)
- Board size 132 mm x 105 mm

Description

The SPC574S-DISP is the ideal discovery board for accelerating the development and securing a fast time-to-market, with a perfect balance among performance, functionalities and cost.

Featuring SPC57 4S Line, it addresses a wide range of automotive applications such as brushless DC electric motors.

SPC57 4S Line is designed to meet the ASIL-D highest functional safety level, in compliance with ISO26262. The SPC574S-DISP provides full access to all CPU's signals and GPIO's, and exposes a wide set of connectivity options, such as CAN-FD, FlexRay, LIN, UART.

It offers easy debug both with a JTAG port and the on-board PLS debugger-programmer. PLS Universal Debug Engine Software is available for free download and includes a full feature code size limited evaluation license. It also includes extension headers (4 x 40 pins) to connect prototyping boards or additional modules, as well as push switches and LEDs for HMI customization and the power supply (EU plug) in the box for immediate plug and play.

ST's SPC5 Studio, an Eclipse-based Integrated Development Environment (IDE), providing a comprehensive framework to design, build and deploy your own embedded application SPC5 Studio is available for free download and includes multiple free application firmware examples ready for use. Learn more and share your experience joining ST Community.

1 System requirements

- Windows PC
- USB cable Type-A to mini-B
- PSU: 12 V, 2 A (100 - 240 Vac, EU Plug)

2 Development toolchain

- SPC5 Studio

3 Demonstration software

Demonstration software is preloaded in the MCU flash memory for easy demonstration of the SPC574S-DISP in stand-alone mode.

Revision history

Table 1. **Document revision history**

Date	Version	Changes
12-Aug-2019	1	Initial release.
03-Sep-2024	2	Updated Device summary and Features replacing SPC574S60E3 with SPC574S64E3.

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