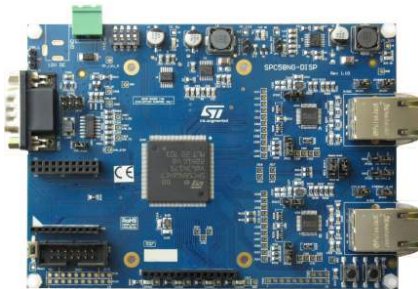


SPC58NG-DISP Discovery+ evaluation board



Features

- Featuring SPC58NG84E7, a 32-bit Power Architecture® triple core e200z4, 6MB flash in eLQFP176 package. Device designed to meet ASIL-D safety level and embeds an HSM with 128KB flash memory.
- 2 Ethernet ports
- 1 CAN FD port (DB9 connector)
- JTAG interface (14 pin - 2x7 connector)
- 2 Push buttons, 4 LEDs for user purposes, reset push button
- Board Supply: 12 VDC (external power supply)
- Connector suitable for TFT LCD module
- Board size 145 x 105 mm

Description

The SPC58NG-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 SPC58 Chorus G Line, it addresses automotive applications, such as body and gateway, requesting the highest functional safety level, and in which security, as well as performances, reliability and high operating temperature needs are growing. SPC58 Chorus G Line is designed to meet ASIL-D highest functional safety level in compliance with ISO26262, and it embeds a Hardware Security Module (HSM) with Medium EVITA support to grant protection and secure communication. The board provides full access to all CPU's signals and GPIO's, and exposes a wide set of connectivity options, such as CAN-FD, Ethernet, FlexRay, LIN, UART.

It offers easy debug with a JTAG port. It also includes push switches, LEDs, and a connector suitable for the 2.8 inch TFT LCD Module TJCTM24028-SPI, to enhance HMI customization and debug (LCD not included). Power supply in the box for immediate plug and play.

ST's SPC5Studio, is an Eclipse-based Integrated Development Environment, providing a comprehensive framework to design, build and deploy your own embedded application SPC5Studio is available for free download (www.st.com/spc5studio) and includes multiple free application firmware examples, including an LCD library, ready for use. Learn more and share your experience joining ST Community at ([https://community.st.com/SPC5 Automotive MCUs](https://community.st.com/SPC5%20Automotive%20MCUs)).

Product status link	
SPC58NG-DISP	
Product summary	
Order code	SPC58NG-DISP
Reference	SPC58NG-DISP Discovery board with SPC58NG84E7

1 System requirements, HW and SW resources

1.1 System requirements

- Windows PC
- 12 V -2 A power supply (Included - EU Plug)

1.2 Development toolchain

SPC5Studio.

1.3 Demonstration software

Demonstration software is preloaded in the MCU Flash memory for easy demonstration of the SPC58NG-DISP in stand-alone mode.

Revision history

Table 1. Document revision history

Date	Version	Changes
07-Jul-2017	1	Initial release.
19-Mar-2019	2	Updated Features , Description and Product summary Minor text changes.
04-Jul-2019	3	Updated Features , Description and Product summary

Contents

1	System requirements, HW and SW resources	2
1.1	System requirements	2
1.2	Development toolchain	2
1.3	Demonstration software	2
	Revision history	3

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. For additional information about ST trademarks, please refer to www.st.com/trademarks. 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.

© 2019 STMicroelectronics – All rights reserved