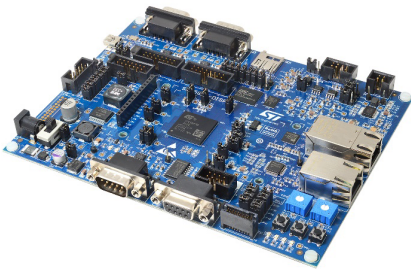## SPC58 H Line Discovery Board

Features

- Featuring SPC58 SPC58NH92C5, a 32-bit Power Architecture® triple core z4d, with 10 MB flash in FPBGA386 package.
- Designed according to ISO26262, embedding a lockstep core, SPC58 H Line supports functional safety requirements up to ASIL-D
- HSM supporting EVITA full
- 2 Ethernet ports (10/100 Mbps and 1 Gbps)
- OctalSPI interface (HyperFlash and HyperRam memory)
- eMMC and SD Card (microSD port)
- 3 CAN FD port with DB9 Connector
- 2 FlexRay and 2 UART channels
- 1 LIN and 1 K-Line channels
- USB to UART port
- 3 Push buttons, 4 LEDs for users, Reset push button
- Board Supply: 12 VDC (external power supply)
- Connector for TFT-LCD (Option)
- Board size: 170x130mm

Description

The SPC58NH-DISP discovery board is the optimal solution for accelerating the development and securing a fast time-to-market, with a perfect balance among performance, functionalities and cost.

Featuring SPC58 Chorus H Line, it addresses automotive applications, such as gateway, body and battery management system, requesting the highest functional safety level, and in which security, as well as performances, reliability and high operating temperature needs are growing. Offering a large memory size, both volatile and NVM, it supports Over-the-air (OTA) Software update.

The board provides access to the 10/100 Mbps and 1 Gbps Ethernet ports, 3 FD-CAN channels as well as FlexRay, LIN and UART.

Two memories allow evaluation hyperbus interface to extend the internal RAM and the eMMC interface to allow big data file storage.

It offers easy debug with a JTAG port. It also includes push switches, LEDs, and a connector suitable for the 2.8" TFT-LCD module (TJCTM24028-SPI), to enhance HMI customization and debug (LCD not included). Power supply is 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 (https://community.st.com).

Product status link
SPC58NH-DISP

Order code	References
SPC58NH-DISP	SPC58NH-DISP with SPC58NH92C5

DB4143 - Rev 1 - March 2020
For further information contact your local STMicroelectronics sales office.

www.st.com

1   System requirements

- Windows PC
- 12 Vdc - 2 A Power supply (included - EU Plug)

2   Development toolchain

- SPC5Studio

3 Demonstration software

Demonstration software is preloaded in the MCU flash memory for easy demonstration of the SPC58NH-DISP in stand-alone mode.

Revision history

Table 1. Document revision history

Date	Version	Changes
13-Mar-2020	1	Initial release.

Contents

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