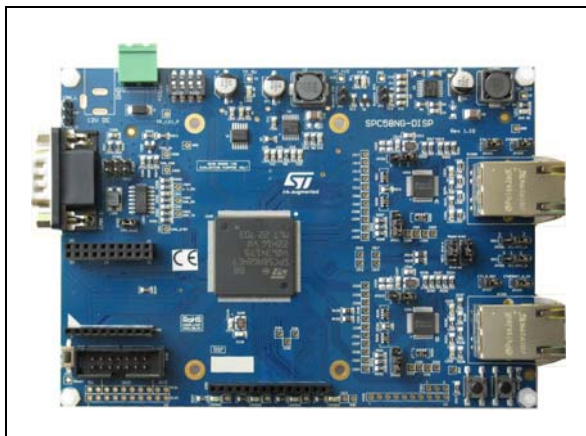


## SPC58NG-DISP Discovery+ board

Data brief



### Features

- SPC58NE84E7 high performance e200z4 triple core 32-bit Power Architecture® technology CPU. 6582 KB (6144 KB code flash+ 256 KB data flash) on-chip flash memory. 182 KB HSM dedicated flash memory. ASIL-D safety (ASIL-D of ISO 26262)
- 2 Ethernet ports
- 1 CAN FD port with DB9 Connector
- 1 CAN + 1 LIN/UART+1 SPI
- 2 FlexRay channels
- JTAG Port (14 pin - 2 x 7 connector)
- 4 LED's User
- 2 User Push Buttons
- 12VDC power supply (external PSU)
- RESET Push Button
- 40MHz Crystal

### Description

The discovery board SPC58NG-DISP helps you to discover SPC58N Line Power Architecture Microcontrollers with access to Ethernet peripheral at budget price.

The board supports CAN-FD communication with dedicated transceiver and DB9Connector.

Dedicated connectors allow plugging additional daughter boards increasing the functionality of this discovery boards.

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 SPC58N Line is designed to address car body applications and Ethernet car networking as well as many other markets where high temperature operation, high reliability, low power stand-by operation are required.

The SPC58NE84E7 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.

**Table 1. Device summary**

Order Code	Reference
SPC58NG-DISP	SPC58NG-DISP with SPC58NE84E7

# **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.

## 2 Revision history

Table 2. Document revision history

Date	Revision	Changes
7-Jul-2017	1	Initial release.

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