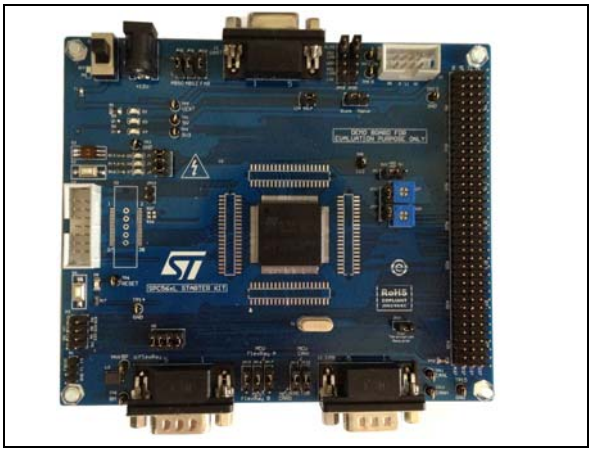
SPC56EL70L5DISP

SPC56xL Discovery+ evaluation board

Data brief



Features

- Single 12 V_{DC} external power supply input. Two regulators provide power voltages 5V and 3.3 V.
- Main power switch and three power supply status LEDs (+12 V, +5 V and +3.3 V)
- All MCU signals accessible by a 37x4 (100mil) pin grid array allowing connection of an additional board for dedicated applications.
- JTAG interface (7x2 male connector)
- Two FlexRay interfaces (HW configurable)
- Two LIN interfaces (HW configurable)
- K-Line interface.
- Two CAN interfaces (HW configurable)
- Two reference voltage sources adjustable by variable resistor (0 V÷5 V)
- Three user LEDs
- 40MHz crystal
- Reset push button
- Specification:
  - Board size 115 x 135mm
  - 12 V_{DC} center positive, 2.1 mm inner diameter.

Description

The SPC56xL Discovery+ kit is an evaluation system supporting STMicroelectronics SPC56xL microcontrollers. The evaluation board allows full access to all of the CPUs I/O signals, and the peripherals such as CAN, FlexRay, UART, JTAG, K-Line, LIN.

The SPC56xL family is ST state of the art MCU based on 32-bit microcontrollers Power Architecture® Cores specifically addressing all Automotive Applications but as well suitable for industrial safety oriented applications.

The SPC56xL devices are optimized for chassis & safety applications and suitable for ASIL D/SIL level 3 requirements.

The content of hardware delivery consists of:

- SPC56xL Discovery+ kit board.
- Power Supply (Mains: 90-240 V_{AC} - Output: 12 V_{DC}).

SPC56xL Discovery+ is supported by a specific Application Project inside SPC5 Studio (a visual integrated software development environment to easily develop software for SPC56 MCU's), where micro start-up routine, I/O mapping and a simple test code has been already designed by STMicroelectronics experts.

SPC5Studio is available for download www.st.com/spc5studio.

SPC5 Studio comes with HighTec GNU "C" compiler free fully featured trial 30 days trial version.

An E2E Community is available on ST WEB: https://my.st.com/public/STe2ecommunities.

Table 1. Device summary

Order code	Reference
SPC56EL70L5DISP	SPC56xL Discovery+ evaluation board

Contents

1 Revision history

Table 2. Revision history

Date	Revision	Changes
28-Mar-2013	1	Initial release.

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