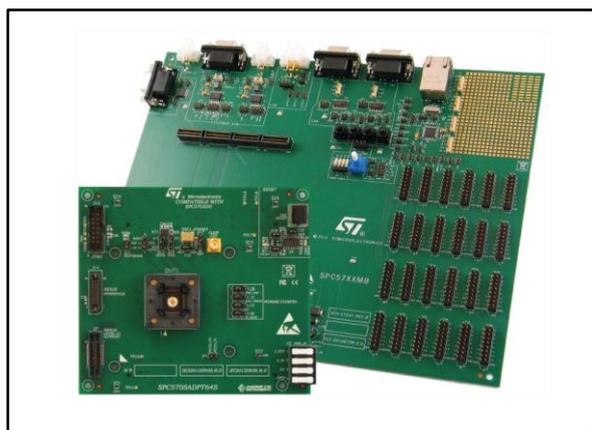


SPC570Sx microcontroller premium evaluation boards

Data brief



Features

- SPC570Sx modular evaluation system
- Single 12 V external power supply
- Four on-board regulators:
 - 5.0 V, 3.3 V and 1.25 V switching regulators
 - 5 V linear regulator for the ADC supplies and references
- Master power switch and regulator status LEDs
- Two 240-way high-density expansion connectors for MCU daughter cards
- All MCU signals readily accessible at a port-ordered group of 0.1" pitch headers
- RS232/SCI physical interface and standard DB9 female connector
- Two FlexRAY channels interface with a DB9 connector (for both transceivers) and two alternative connectors
- LINFlexD interface with two different style connectors
- Two high speed CAN channels and two female standard DB9 connectors
- Ethernet interface with a standard RJ45 Ethernet connector
- One potentiometer for analog voltage input and four user switches and 4 user LEDs, freely connectable

- Open top MCU socket
- Flexible MCU clocking options
 - 40 MHz crystal EVB clock circuit
 - 8 MHz EVB clock oscillator circuit
 - external clock via SMA connector
- User reset switch with reset status LEDs
- Debug ports interface:
 - 14-pin standard JTAG connector
 - 34-pin connector for Nexus 2 interface
 - 38-pin Mictor connector for Nexus level 3+ debug and trace interface
- Minimodule dimension: 127 mm X 114 mm

Description

The SPC570Sx Premium Evaluation Boards System supports the 32-bit SPC570Sx STMicroelectronics' automotive microcontrollers (ASIL-D compliant).

The complete system consists of an SPC57XXMB motherboard and an SPC570SADPTx daughter card which plugs into the motherboard. Different daughter cards are available for evaluating the whole family of device in all supported packages. All daughter cards are similar in design and concept.

The evaluation system (motherboard and daughter card) allows full access to the CPU, all of the CPU's I/O signals, and the motherboard peripherals (such as CAN, SCI, LIN and FlexRAY). The daughter card itself can be used as a standalone unit when access to the I/O pins or peripherals is not needed.

Table 1: Device summary

Order code	Reference
SPC57XXMB	Motherboard for SPC57x family devices
SPC570SADPT100S	Daughter card for SPC570Sx MCU in eTQFP100 package
SPC570SADPT64S	Daughter card for SPC570Sx MCU in eTQFP64 package

1 Revision history

Table 2: Revision history

Date	Revision	Changes
16-Jun-2015	1	Initial release.

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