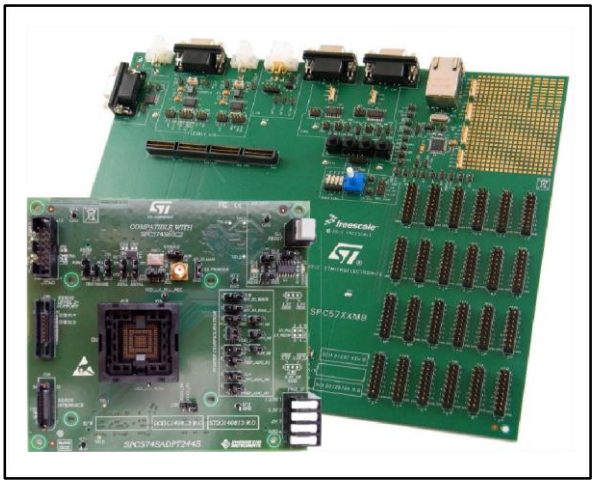
SPC574SADPT144S, SPC574SADPT244S

SPC574Sx microcontroller premium evaluation boards

Data brief



Features

- SPC574Sx 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
- One FlexRAY channels interface with a DB9 connector and two alternative connectors
- LINFlexD interface with two different style connectors
- Two high speed CAN transceivers and two female standard DB9 connectors
- 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 SPC574Sx Premium Evaluation Boards System supports the 32-bit SPC574Sx STMicroelectronics' automotive microcontrollers.

The complete system consists of a SPC57XXMB motherboard and a SPC574SADPTx 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 and LIN). The daughter card itself can be used as a standalone unit when access to the I/O pins or peripherals is not needed.

For further information contact your local STMicroelectronics sales office

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1 Order codes

Table 1: Device summary

Part codes	Device supported
SPC57XXMB	Motherboard for SPC57x, SPC58x family devices
SPC574SADPT144S	Daughter card for SPC574Sx MCU in eTQFP144 package
SPC574SADPT244S	Daughter card for SPC574Sx MCU in BGA244 package

2 Revision history

Table 2: Revision history

Date	Revision	Changes
26-Jan-2016	1	Initial release.

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