SPC58XXADPTxx

SPC58XXADPTx microcontroller premium evaluation board for SPC58xB/C

Data brief

- Two high speed CAN channels 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
- 10-pin SIPI connector for Serial Interprocessor Interface
- Minimodule dimension: 127 mm X 114 mm

Features

- Modular evaluation system for SPC58xB/C
- 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

Description

The Premium Evaluation Boards System supports the 32-bit SPC58xB/C STMicroelectronics' automotive microcontrollers.

The complete system consists of a SPC57XXMB motherboard and a SPC58XXADPTx daughtercard 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
SPC58XXADPT64S	Daughter card for SPC58xB/C MCU in TQFP64 package
SPC58XXADPT100S	Daughter card for SPC58xB/C MCU in TQFP100 package
SPC58XXADPT144S	Daughter card for SPC58xB/C MCU in TQFP144 package

2   Revision history

Table 2: Revision history

Date	Revision	Changes
02-Feb-2016	1	Initial release.

IMPORTANT NOTICE – PLEASE READ CAREFULLY