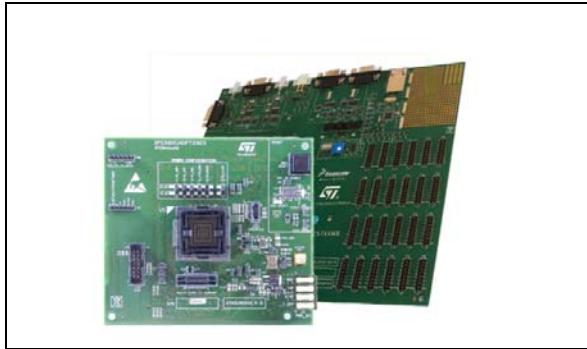


SPC58XCADPT292S microcontroller premium evaluation board for SPC58XCXXC3

Data brief



Features

SPC57XXMB:

- SPC58x 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

SPC58XCADPT292S:

- 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
- 14-pin standard JTAG connector
- 38-pin TYCO connector for Nexus interface
- 12-pin header connector for LFAST interface
- Minimodule dimension: 127 mm X 114.3 mm
- Max Top components height 19.4mm
- PCB thickness 1.6mm
- Max Bottom components height 3.5mm

Description

The SPC58XCADPT292S Premium Evaluation Boards System supports the 32-bit SPC58XCXXC3 STMicroelectronics' automotive microcontrollers.

The complete system consists of an SPC57XXMB motherboard and an SPC58XCADPT292S 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.

1 Order codes

Table 1. Device summary

Order code	Reference
SPC57XXMB	Motherboard for SPC57x/SPC58x family devices
SPC58XCADPT292S	Socketed mini module for SPC58 C line in LFBGA292 package. Requires SPC57XXMB

2 Revision history

Table 2. Document revision history

Date	Revision	Changes
14-Nov-2017	1	Initial release.

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