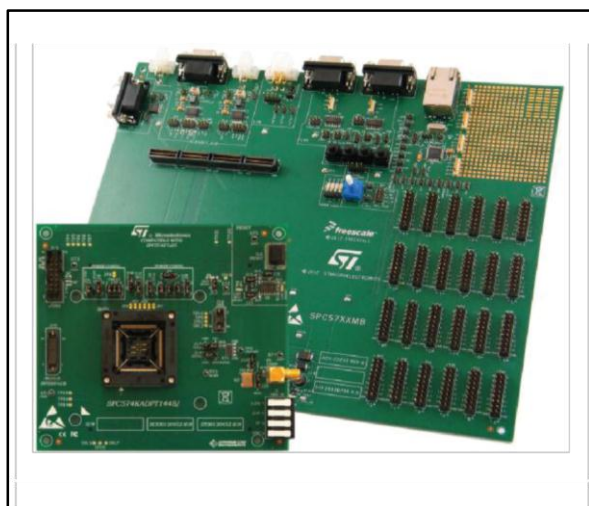


SPC58XXADPTx microcontroller premium evaluation board for SPC58xE/G

Data brief



Features

- Modular evaluation system for SPC58xE/G
- 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
- 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 SPI connector for Serial Interprocessor Interface
- Minimodule dimension: 127 mm X 114 mm

Description

The Premium Evaluation Boards System supports the 32-bit SPC58xE/G 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.

1 Order codes

Table 1: Device summary

| Part codes | Device supported |
|-----------------|---|
| SPC57XXMB | Motherboard for SPC57x, SPC58x family devices |
| SPC58XXADPT292S | Daughter card for SPC58xE/G MCU in LFBGA292 package |
| SPC58XXADPT176S | Daughter card for SPC58xB/C MCU in eLQFP176 package |

2 Revision history

Table 2: Revision history

| Date | Revision | Changes |
|-------------|----------|------------------|
| 27-Jan-2016 | 1 | Initial release. |

IMPORTANT NOTICE – PLEASE READ CAREFULLY

STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, enhancements, modifications, and improvements to ST products and/or to this document at any time without notice. Purchasers should obtain the latest relevant information on ST products before placing orders. ST products are sold pursuant to ST's terms and conditions of sale in place at the time of order acknowledgement.

Purchasers are solely responsible for the choice, selection, and use of ST products and ST assumes no liability for application assistance or the design of Purchasers' products.

No license, express or implied, to any intellectual property right is granted by ST herein.

Resale of ST products with provisions different from the information set forth herein shall void any warranty granted by ST for such product.

ST and the ST logo are trademarks of ST. All other product or service names are the property of their respective owners.

Information in this document supersedes and replaces information previously supplied in any prior versions of this document.

© 2016 STMicroelectronics – All rights reserved