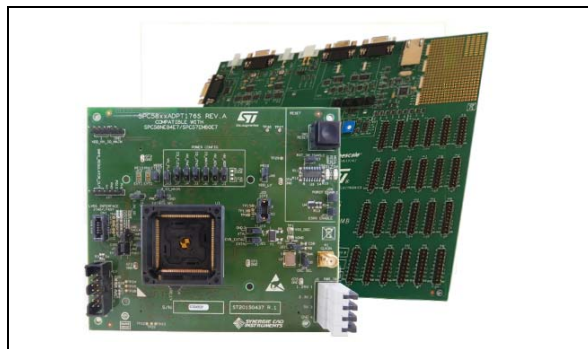


SPC58XXADPT176S microcontroller premium evaluation board for SPC58EE84L7, SPC58NE84L7 and SPC58ENXXL7

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

SPC58XXADPT176S:

- 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
- 10-pin header connector for JTAG/LFAST LVDS interface
- 10-pin header connector for SIPI interface
- Minimodule dimension: 127 mm X 114.3 mm
- Max Top components height 19.4 mm
- PCB thickness 1.6mm
- Max Bottom components height 3.5 mm

Description

The SPC58XXADPT176S Premium Evaluation Boards System supports the 32-bit SPC58EE84L7, SPC58NE84L7 and SPC58ENXXL7 STMicroelectronics' automotive microcontrollers. The complete system consists of an SPC57XXMB motherboard and an SPC58XXADPT176S daughter card which plugs into the motherboard. Different daughter cards are available for evaluating the whole family of devices 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
SPC58XXADPT176S	Socketed mini module for SPC58 E/N in QFP176 package. Requires SPC57XXMB

2 Revision history

Table 2. Document revision history

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

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