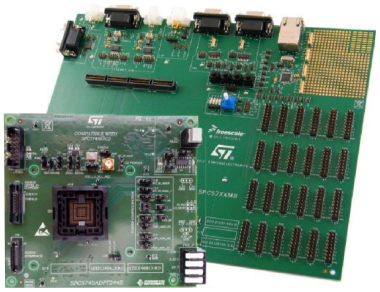
SPC574SADPT144S, SPC574SADPT244S

Data brief

SPC574Sx microcontroller premium evaluation boards



Product status link
SPC574SADPT144S
SPC574SADPT244S

Product summary	
Order code	**SPC574SADPT144S**
Reference	Daughter card for SPC574Sx MCU in eTQFP144 package. (1)
Order code	**SPC574SADPT244S**
Reference	Daughter card for SPC574Sx MCU in BGA244 package. (1)
Order code	**SPC58XXMB**
Reference	Motherboard for SPC58/ SPC57 family devices.
Order code	**SPC57XXMB**
Reference	Motherboard for SPC58/ SPC57 family devices.

1. *The MCU is not included, it must be purchased separately. Please contact your sales representative for more details.*

Features

SPC574SADPT144S, SPC574SADPT244S

- 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
- 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
- Standard connectors to SPC58XXMB/SPC57XXMB

SPC58XXMB/SPC57XXMB

- SPC57 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 (for both transceivers) and two alternative connectors
- LINFlexD interface with two different style connectors
- Two high speed CAN-FD channels and two female standard DB9 connectors
- One potentiometer for analog voltage input and four user switches and 4 user LEDs, freely connectable

Description

The Premium Evaluation Boards System supports the 32-bit SPC574Sx STMicroelectronics' automotive microcontrollers.

The complete system consists of an SPC58XXMB/SPC57XXMB motherboard and an 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 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.

The MCU is not included, it must be purchased separately. Please contact your sales representative for more details.

Revision history

Table 1. Document revision history

Date	Version	Changes
18-Jul-2019	1	Initial release.
13-Dec-2019	2	Updated features. Added product status link table and product summary table. Minor text changes.