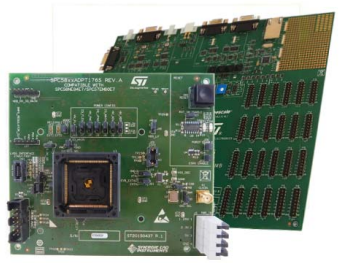
SPC58XXADPT292S premium evaluation board for SPC58XN8XC3, SPC58XE84C3 and SPC58XG84C3



Product status link
SPC58XXADPT292S

Product summary	
Order code	**SPC58XXADPT292S**
Reference	Socketed mini module SPC58 E/G/N lines in BGA292 package. Requires SPC58XXMB.(1)
Order code	**SPC58XXMB**
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

SPC58XXADPT292S

- 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 Aurora interface
- 10-pin header connector for SIPI interface
- Mini module dimensions: 127 mm X 114.3 mm
- Max Top components height 19.4 mm
- PCB thickness 1.6 mm
- Max Bottom components height 3.5 mm
- Standard connectors to SPC58XXMB

SPC58XXMB

- SPC58 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-FD 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

Description

The SPC58XXADPT292S Premium Evaluation Boards System supports the 32-bit SPC58XN8XC3, SPC58XE84C3 and SPC58XG84C3 STMicroelectronics' automotive microcontrollers.

The complete system consists of a motherboard and a SPC58XXADPT292S daughter card which plugs into the motherboard. Different daughter cards are available for evaluating the whole family of the 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
02-Nov-2017	1	Initial release.
02-Dec-2019	2	Updated features. Added product status link table and product summary table. Minor text changes.
26-Feb-2021	3	Removed SPC57XXMB reference. Minor text changes.