

SPC560Pxx microcontroller family evaluation board

Data brief — production data

Features

- SPC560Pxx modular evaluation system
- On/off power switch with LED indicators
- Board power supply: 12 VDC external supply voltage
- Onboard STMicroelectronics® L9758 voltage regulator with three simultaneous output at 1.2 V, 3.3 V and 5 V
- Possibility to configure onboard peripherals to operate at 5 V or 3.3 V logic levels, depending on target
- Up to two CAN channels with jumper enable^(a)
 - One CAN channel with High-Speed transceiver and DB9 male connector
 - One CAN channel with Low-Speed Fault Tolerant and High-Speed transceiver (selectable with jumpers) and DB9 male connector
- Up to two LIN channels with jumper enable^(a)
 - One channel with transceiver and pin header connector populated
 - One channel with footprints only
- One SCI channel with jumper enables, transceiver and DB9 female connector
- Up to two FlexRay channels with jumper enables^(a)
 - One channel with transceiver and DB9 male connector
 - One channel with footprint only
- Four user push buttons with jumper enable and polarity selection
- Four user LED's with jumper enables
- One potentiometer for analog voltage input
- Pin array for accessing all I/O signals



- Expansion connectors for accessing all I/O signals
- Prototyping area with 0.1" spacing and SOIC footprint
- Specifications:
 - Board size 110 mm x 75 mm
 - 12 VDC Center Positive power supply with 2.5/5.5 mm barrel connector

Description

The SPC560PADPT100S and SPC560PADPT144S are evaluation systems supporting the STMicroelectronics® SPC560Pxx family of automotive microprocessors. The complete system consists of a SPC56XXMB motherboard and a mini module which plugs directly into the motherboard. Different mini modules are available for evaluating the whole family of devices in all supported packages.

The evaluation systems allow full access to the CPU, to all of the CPU's I/O signals and to the motherboard's peripherals (such as CAN, SCI and LIN).

The mini modules itself can be used as a stand-alone unit when access to the I/O pins or peripherals is not needed.

a. See devices datasheet for detailed information.

1 Order codes

Table 1. Device summary

Part numbers	Device supported
SPC56XXMB	Mother board for SPC56xx family of devices
SPC560PADPT100S	Mini module for SPC560P44L3 and SPC560P50L3
SPC560PADPT144S	Mini module for SPC560P44L5 and SPC560P50L5

2 Revision history

Table 2. Document revision history

Date	Revision	Changes
04-Sep-2012	1	Initial release. SPC560PADPT100S and SPC560PADPT144S were previously in document DM00044221 (DocID 022591) revision 1.
13-Sep-2013	2	Updated disclaimer.

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