

SPC560Pxx microcontroller family evaluation board



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
 - 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
 - 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
 - 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
- Standard connectors to SPC56XXMB

Description

The [SPC560PADPT100S](#) and [SPC560PADPT144S](#) are evaluation systems supporting the STMicroelectronics SPC560Pxx family of automotive microprocessors.

The complete system consists of an 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 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 and LIN). The mini modules 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.

Product status link	
	SPC560PADPT100S
	SPC560PADPT144S
Product summary	
Order code	SPC560PADPT100S
Reference	Mini module for SPC560P44L3 and SPC560P50L3 ⁽¹⁾
Order code	SPC560PADPT144S
Reference	Mini module for SPC560P44L5 and SPC560P50L5 ⁽¹⁾
Order code	SPC56XXMB
Reference	Mother board for SPC56xx family of devices

1. 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
04-Sep-2012	1	Initial release. SPC560PADPT100S and SPC560PADPT144S were previously in document DM00044221 (DocID 022591) revision 1.
13-Sep-2013	2	Updated disclaimer.
16-Dec-2019	3	Updated features in cover page. Added product status link table and product summary table. Minor text changes.

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. For additional information about ST trademarks, please refer to www.st.com/trademarks. 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.

© 2019 STMicroelectronics – All rights reserved