



SPC560PADPT100S SPC560PADPT144S

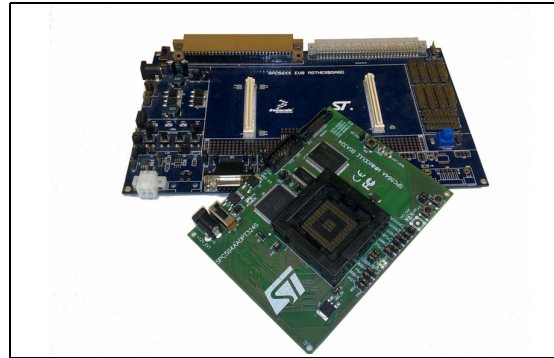
SPC560Pxx microcontroller family evaluation board

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

a. See devices datasheet for detailed information.



- 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.

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.

Please Read Carefully:

Information in this document is provided solely in connection with ST products. STMicroelectronics NV and its subsidiaries ("ST") reserve the right to make changes, corrections, modifications or improvements, to this document, and the products and services described herein at any time, without notice.

All ST products are sold pursuant to ST's terms and conditions of sale.

Purchasers are solely responsible for the choice, selection and use of the ST products and services described herein, and ST assumes no liability whatsoever relating to the choice, selection or use of the ST products and services described herein.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted under this document. If any part of this document refers to any third party products or services it shall not be deemed a license grant by ST for the use of such third party products or services, or any intellectual property contained therein or considered as a warranty covering the use in any manner whatsoever of such third party products or services or any intellectual property contained therein.

UNLESS OTHERWISE SET FORTH IN ST'S TERMS AND CONDITIONS OF SALE ST DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY WITH RESPECT TO THE USE AND/OR SALE OF ST PRODUCTS INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE (AND THEIR EQUIVALENTS UNDER THE LAWS OF ANY JURISDICTION), OR INFRINGEMENT OF ANY PATENT, COPYRIGHT OR OTHER INTELLECTUAL PROPERTY RIGHT.

UNLESS EXPRESSLY APPROVED IN WRITING BY TWO AUTHORIZED ST REPRESENTATIVES, ST PRODUCTS ARE NOT RECOMMENDED, AUTHORIZED OR WARRANTED FOR USE IN MILITARY, AIR CRAFT, SPACE, LIFE SAVING, OR LIFE SUSTAINING APPLICATIONS, NOR IN PRODUCTS OR SYSTEMS WHERE FAILURE OR MALFUNCTION MAY RESULT IN PERSONAL INJURY, DEATH, OR SEVERE PROPERTY OR ENVIRONMENTAL DAMAGE. ST PRODUCTS WHICH ARE NOT SPECIFIED AS "AUTOMOTIVE GRADE" MAY ONLY BE USED IN AUTOMOTIVE APPLICATIONS AT USER'S OWN RISK.

Resale of ST products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by ST for the ST product or service described herein and shall not create or extend in any manner whatsoever, any liability of ST.

ST and the ST logo are trademarks or registered trademarks of ST in various countries.

Information in this document supersedes and replaces all information previously supplied.

The ST logo is a registered trademark of STMicroelectronics. All other names are the property of their respective owners.

© 2012 STMicroelectronics - All rights reserved

STMicroelectronics group of companies

Australia - Belgium - Brazil - Canada - China - Czech Republic - Finland - France - Germany - Hong Kong - India - Israel - Italy - Japan - Malaysia - Malta - Morocco - Philippines - Singapore - Spain - Sweden - Switzerland - United Kingdom - United States of America

www.st.com