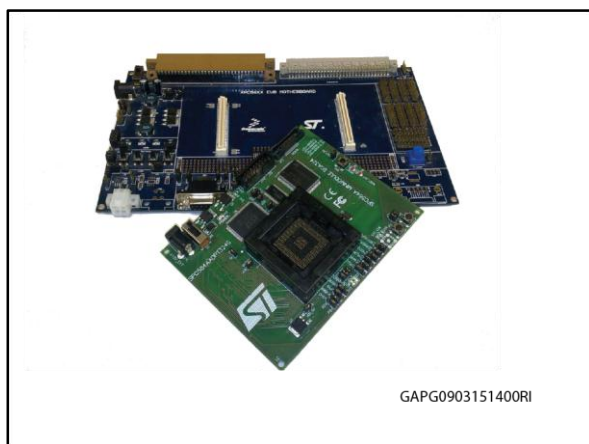


## SPC563Mxx microcontroller family evaluation board

Data brief



### Features

- SPC56xx modular evaluation system
- On/off power switch with LED indicators
- Board power supply: 12 VDC external supply voltage
- On board 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
- 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
- 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
- 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

### Description

The SPC563MADPT176S is an evaluation system supporting the STMicroelectronics SPC56xx 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 system allows 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 module 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

Order code	Reference
SPC56XXMB	Mother board for SPC56xx family of devices
SPC563MADPT176S	Mini module for SPC563M64L7 and SPC564A80L7

## 2 Revision history

Table 2: Revision history

Date	Revision	Changes
04-Dec-2015	1	Initial release.

Obsolete Product(s) - Obsolete Product(s)

**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. 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.

© 2015 STMicroelectronics – All rights reserved