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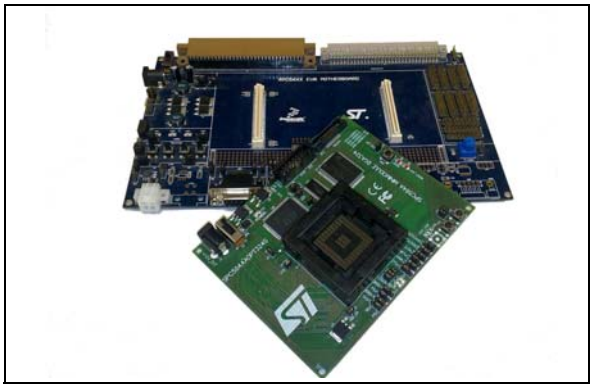
SPC564AADPT324S
SPC563MADPT144S, SPC563M64A176S

SPC563Mxx, SPC564Axx microcontroller family evaluation board

Data brief – production data

Features

- SPC56xx 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
- 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[(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
- 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 (SPC563Mxx)
  - Board size 120 mm x 95 mm (SPC564Axx)
  - 12 VDC Center Positive power supply with 2.5/5.5 mm barrel connector

Description

The SPC563MADPT144S, SPC563M64A176S and SPC564AADPT324S are evaluation systems 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.

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
SPC563MADPT144S	Mini module for SPC563M60L5 and SPC563M64L5
SPC563M64A176S	Mini module for SPC563M60L7, SPC563M64L7, SPC564A70L7 and SPC564A80L7
SPC564AADPT324S	Mini module for SPC564A80B4

2 Revision history

Table 2. Document revision history

Date	Revision	Changes
20-Sep-2012	1	Initial release. SPC564AADPT324S was previously in document DM00044221 (DocID 022591) revision 1.
17-Sep-2012	2	Updated disclaimer.

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