
SPC56xVTOP-M Vertical Calibration Top board

Data brief - production data

SPC563MxxAVBx Vertical base board for SPC563x line and moreover the board enables the use of new enhanced automotive calibration and debug tools on the SPC563Mx line of automotive microcontrollers, featuring a 16-bit bus interface.

Features

- 1 MByte high-speed static RAM organized as 1024K words by 16 bits;
- 16-bit multiplexed Calibration bus configuration;
- Support for Nexus-based debug tools even if application PCB does not include Nexus connector;
- Nexus functionality with 16 Message Data Out (MDO) signals;
- High speed CAN transceiver with signals protection;
- ST A5973D step down monolithic power switching regulator.

Description

Calibration is a process of optimizing a control algorithm to get the desired response from the system. A calibration tool is a combination of a hardware interface and a software application that enables the engineer to access the "calibration variables" in an ECU and change them.

The SPC56xVTOP-M Vertical Calibration Top board is designed to work with the

1 Order codes

Table 1. Order codes

Part number	Reference
SPC56xVTOP-M	RAM/Debug Top Board for SPC563x Vertical Base boards
SPC563M64AVB144	VertiCal Base Board for M-Line target in LQFP144 package
SPC563M64AVB176	VertiCal Base Board for M-Line target in LQFP176 package

2 Revision history

Table 2. Document revision history

Date	Revision	Changes
05-Apr-2016	1	Initial release.

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.

© 2016 STMicroelectronics – All rights reserved