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**SPC56xVTOP-M Vertical Calibration Top board**

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**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**

<b>Part number</b>	<b>Reference</b>
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.

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