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# SPC564A80CAL176 SPC564A70CAL176

## SPC564Axx microcontroller family calibration and emulation system

Data brief

### Features

- Support for LQFP176 MCU production package allowing calibration systems to be built without requiring modifications to the standard production system housing
- 2 MB static RAM organized as 512 K words by 32 bits
- 32-bit multiplexed Calibration bus configuration;
- Support for Nexus-based debug tools even if application PCB does not include Nexus connector
- Nexus functionality with 12 Message Data Out (MDO) signals
- Support for full-feature calibration tools via availability of comprehensive set of device signals available on the connectors.
- ERNI 154819 connector optimized for calibration
- High speed CAN transceiver with signals protection
- Specifications:
  - Board size 36 x 64.5 mm
  - Target connector compatible with TQPACK176SD



### Description

The SPC564A70CALxx and SPC564A80CALxx is a calibration and emulation system supporting the STMicroelectronics® SPC564AXX family of automotive microprocessors.

The Calibration Adapter is designed to substitute the QFP device on an ECU version used during engine calibration.

The complete system consists of a SPC564A70CAL176 board or a SPC564A80CAL176 and a POLYPOD-TQ176 Poly-Pod which plugs directly into the motherboard.

The Calibration Adapter can also be used as emulation board as the Nexus trace port on CSP496 allows using the pins for application purpose.

# 1 Order codes

**Table 1. Device summary**

Order code	Reference
SPC564A70CAL176	Vertical base board for SPC564A70xx in QFP176 target package.
SPC564A80CAL176	Vertical base board for SPC564A80xx in QFP176 target package.
POLYPOD-TQ176	TQ-PolyPod for QFP176 targets.

## 2 System requirements

- "Windows PC (XP, Vista, 7)

### 3 Calibration software

- "ETAS INCA

## 4 Revision history

**Table 2. Document revision history**

Date	Revision	Changes
16-Jul-2012	1	Initial release.
17-Sep-2012	2	Updated disclaimer.

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