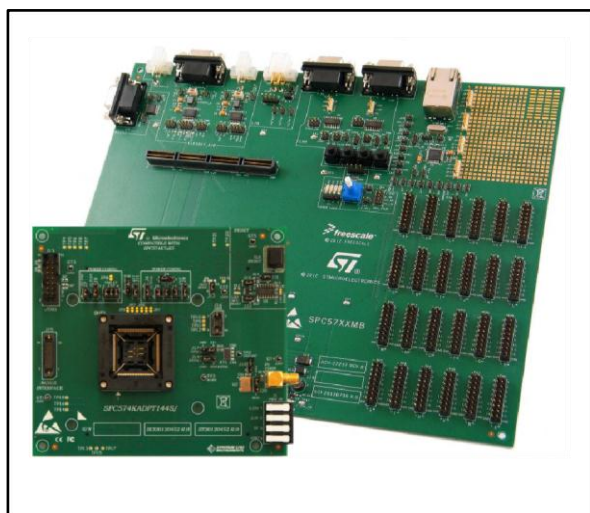


SPC574KADPT144S microcontroller premium evaluation board for SPC574Kx

Data brief



- Two high speed CAN channels and two female standard DB9 connectors
- One potentiometer for analog voltage input and four user switches and 4 user LEDs, freely connectable
- Open top MCU socket
- Flexible MCU clocking options
 - 40 MHz crystal EVB clock circuit
 - 8 MHz EVB clock oscillator circuit
 - external clock via SMA connector
- User reset switch with reset status LEDs
- Debug ports interface:
 - 14-pin standard JTAG connector
 - 34-pin connector for Nexus 2 interface
- 10-pin SIPI connector for Serial Interprocessor Interface
- Minimodule dimension: 127 mm X 114 mm

Features

- Modular evaluation system for SPC574Kx
- Single 12 V external power supply
- Four on-board regulators:
 - 5.0 V, 3.3 V and 1.25 V switching regulators
 - 5 V linear regulator for the ADC supplies and references
- Master power switch and regulator status LEDs
- Two 240-way high-density expansion connectors for MCU daughter cards
- All MCU signals readily accessible at a port-ordered group of 0.1" pitch headers
- RS232/SCI physical interface and standard DB9 female connector
- Two FlexRAY channels interface with a DB9 connector (for both transceivers) and two alternative connectors
- LINFlexD interface with two different style connectors

Description

The Premium Evaluation Boards System supports the 32-bit SPC574Kx STMicroelectronics' automotive microcontrollers.

The complete system consists of a SPC57XXMB motherboard and a SPC574KADPTx daughter card which plugs into the motherboard. Different daughter cards are available for evaluating the whole family of device in all supported packages. All daughter cards are similar in design and concept.

The evaluation system (motherboard and daughter card) allows full access to the CPU, all of the CPU's I/O signals, and the motherboard peripherals (such as CAN, SCI and LIN). The daughter card itself can be used as a standalone unit when access to the I/O pins or peripherals is not needed.

1 Order codes

Table 1: Device summary

Part codes	Device supported
SPC57XXMB	Motherboard for SPC57x, SPC58x family devices
SPC574KADPT144S	Daughter card for SPC574Kx MCU in eTQFP144 package

2 Revision history

Table 2: Revision history

Date	Revision	Changes
01-Jul-2015	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.

© 2015 STMicroelectronics – All rights reserved