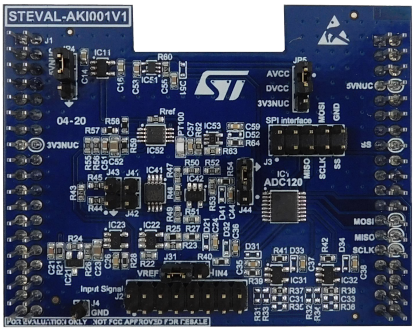
STEVAL-AKI001V1

Data brief

Evaluation board for the ADC120 8-channel, 50ksps to 1Msps, 12-bit analog to digital converter



Features

- 12-bit ADC implementing SAR technology
- 50 ksps to 1 Msps conversion rate
- 8-to-1-channel input MUX
- 3.3 V operating supply
- SPI, serial digital output
- Very low power consumption
- RoHS compliant

Description

The STEVAL-AKI001V1 evaluation board allows the user to evaluate the conversion performance of the ADC120 8-channel analog-to-digital converter designed for 50 ksps to 1 Msps conversion.

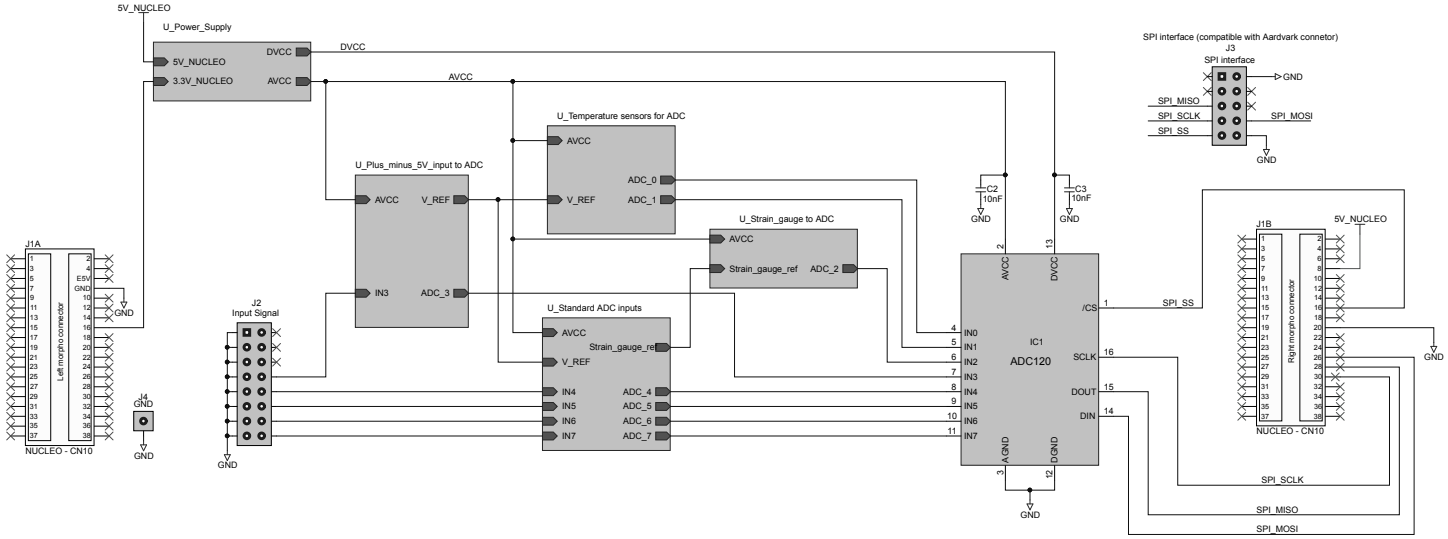
The board has several on-board sources like temperature sensor and strain gauge signals, and can accept external signals to allow measurement and evaluation of the ADC120 conversion performance based on its successive approximation register (SAR) with internal track-and-hold cell.

The board is supplied ready-to-use in standalone mode, or it can be plugged onto a NUCLEO-L476RG board with SMT32 microcontroller, which enables further signal processing and PC communication.

Product summary	
evaluation board for ADC120 8-Channel, 50ksps to 1Msps, 12-bit ADC	STEVAL-AKI001V1
low-power, eight-channel pure CMOS 12-bit ADC from 50ksps to 1Msps	ADC120
Recommended Nucleo boards	NUCLEO-L476RG
Applications	Power Supplies and Converters

1 Schematic diagrams

Figure 1. STEVAL-AKI001V1 schematic diagram



Revision history

Table 1. **Document revision history**

Date	Version	Changes
13-Feb-2020	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. For additional information about ST trademarks, please refer to www.st.com/trademarks. 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.

© 2020 STMicroelectronics – All rights reserved