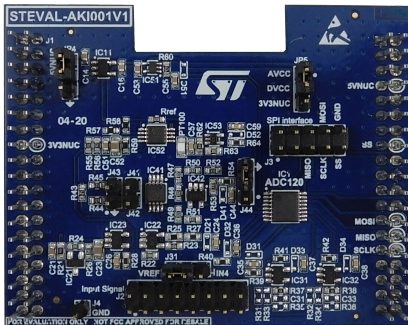


## Evaluation board for the ADC120 8-channel, 50ksps to 1MSPS, 12-bit analog to digital converter



### Features

- 12-bit ADC implementing SAR technology
- 50 kps to 1 Mps 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 kps to 1 Mps conversion.

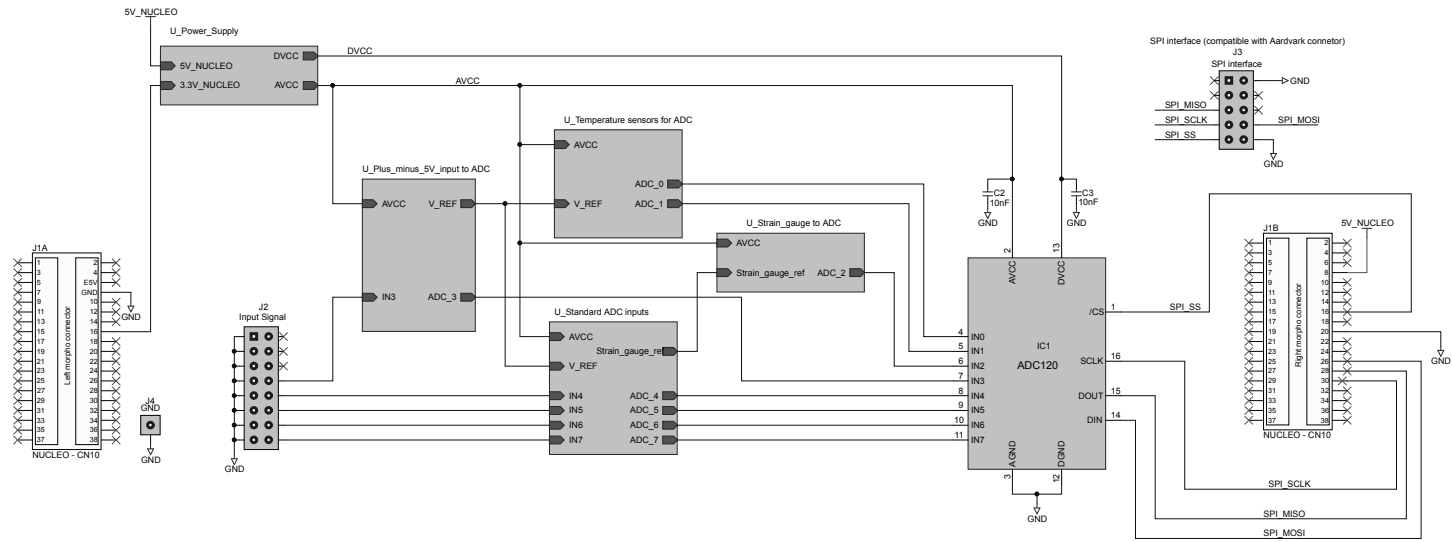
The board has several on-board sources like temperature sensor and strain gauge signals, and can accept external signals to allow measurement and evaluation of the [ADC120](#) conversion performance based on its successive approximation register (SAR) with internal track-and-hold cell.

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	<a href="#">STEVAL-AKI001V1</a>
low-power, eight-channel pure CMOS 12-bit ADC from 50ksps to 1MSPS	<a href="#">ADC120</a>
Recommended Nucleo boards	<a href="#">NUCLEO-L476RG</a>
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.

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