User Guide

UG000459

AS5116 Socket Board

Socket Board Manual

AS5116-SO_EK_SB

v1-00 • 2019-Oct-24

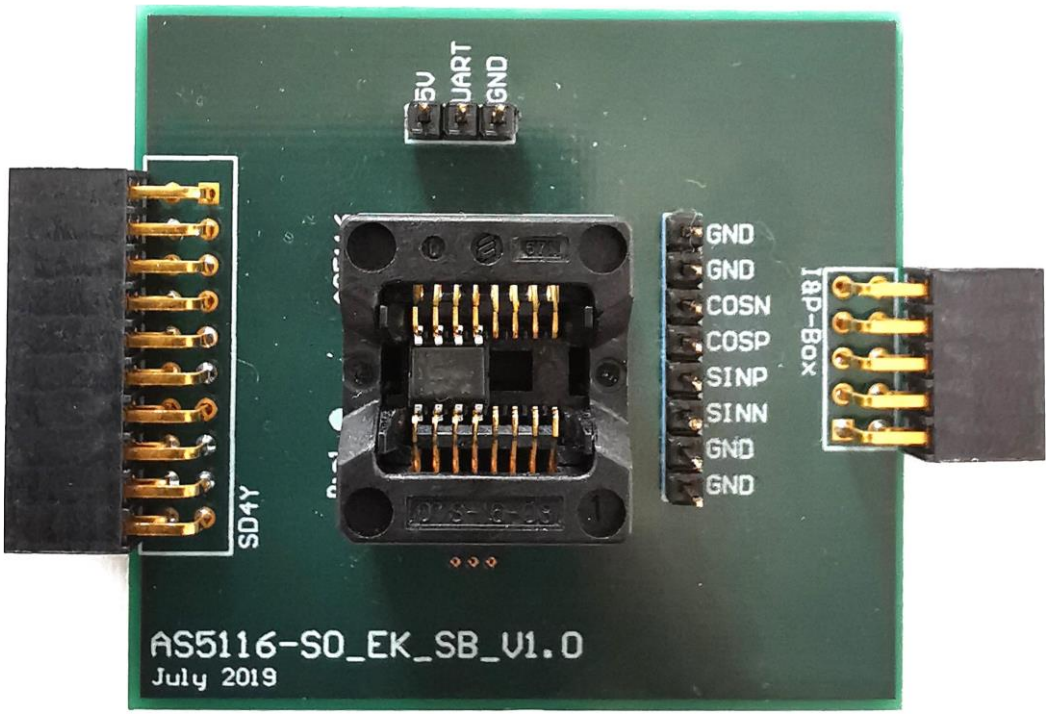
Content Guide

1 Introduction

The AS5116-SO_EK_SB socket board is used for quick programming of the AS5116 magnetic rotary position sensors without soldering due to its ZIF socket. This board is used in combination with the USB I&P Box or the SD4Y production programmer.

1.1 Kit Content

Figure 1:
Kit Content



Pos.	Item	Comment
1	AS5116-SO_EK_SB	Socket board

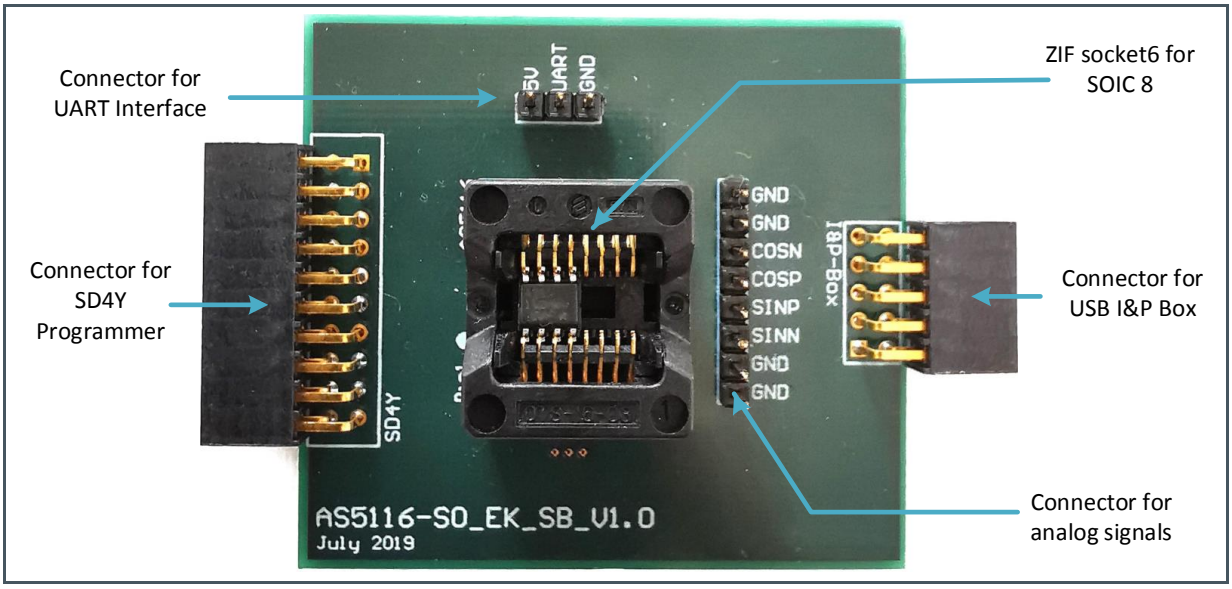
1.2 Ordering Information

Ordering Code	Description
AS5116-SO_EK_SB	Socket board assembled with ZIF socket

2 Board Description

The PCB offers 2 connecting options: The 5-pin dual-row connector on the left side for connecting to the USB I&P Box and the 10-pin dual-row connector on the right side for connecting to the SD4Y Production Programmer. Furthermore, 8-pin header on top gives access to analog signals and GND signals. A ZIF Open-Top-Socket for SOIC8 packages is mounted in the middle. Pin 1 of the IC is indicated by a small dot on the left bottom corner of the socket or by the label on the PCB. All passive components needed for proper operation are included on the PCB. Only a power supply mode of 5 V is possible.

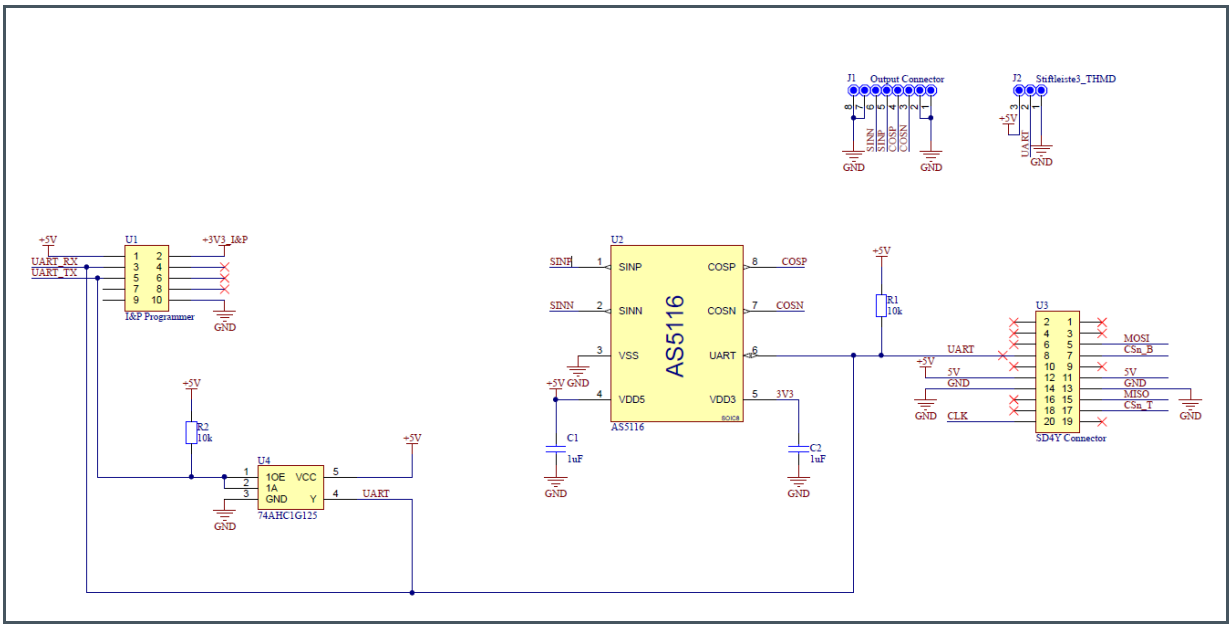
Figure 2:
Socket Board



3 Hardware

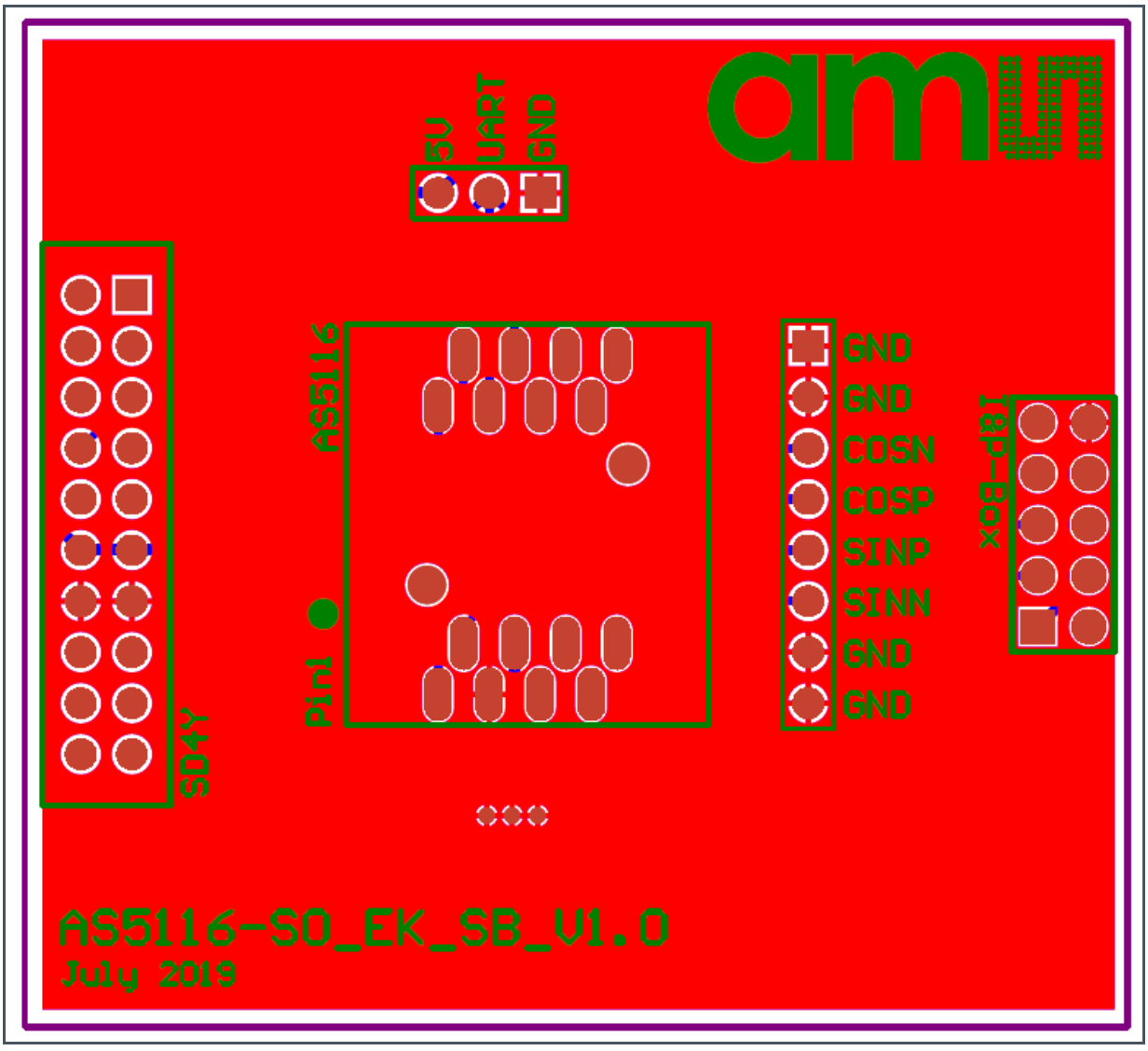
3.1 Schematics

Figure 3:
Schematic



3.2 PCB Layout

Figure 4:
PCB Layout



4 Revision Information

Changes from previous version to current revision v1-00	Page
Initial version	

- Page and figure numbers for the previous version may differ from page and figure numbers in the current revision.
- Correction of typographical errors is not explicitly mentioned.

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