

### General Description

SC-USB-SPI is an adapter used for converting a computer's USB interface connection to the serial parallel interface (SPI) used by the SC18 XX. Only two connections are required for use with the SC18XX and no external power supply is required. The USB connection from the host computer is made through a standard USB 2.0 cable and connects to the USB-B female connector, J3, on SC-USB-SPI. The interface connection between circuit assembly containing the SC18XX and the USB-SPI adapter is through J2.

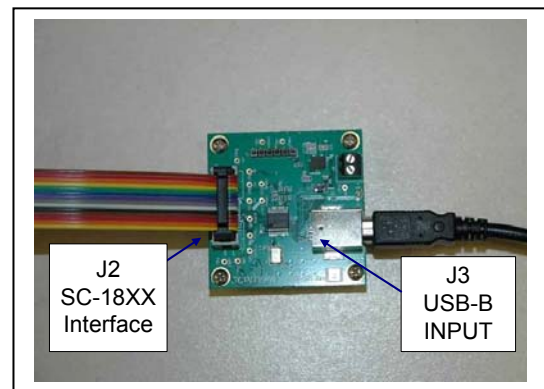
This adapter can only be used to run one instance of the SC18 XX GUI at a time. Conflicts will occur when running multiple SC18XX GUIs trying to open the same SPI communication pipe.

Typical Operating Temperature: +25°C

### Connector Interface Descriptions

#### J2- SC18XX EVB Interface<sup>3</sup>

Pin	Description	Connection to SC18XX EVB 3.0
1	WDT (Watch Dog Timer) <sup>1</sup>	J2-1 (TESTSEL2) <sup>2</sup>
2	Spare 1 <sup>1</sup>	J2-2 (TESTSEL1) <sup>2</sup>
3	TESTSEL0	J2-3 (TESTSEL0)
4	STATO	J2-4 (STATO_B)
5	TXENB	J2-5 (TXENB)
6	RESETN	J2-6 (RESETN)
7	GND	J2-7(GND)
8	SSN	J2-8 (SSN)
9	GND	J2-9 (GND)
10	SDO	J2-10 (SDI)
11	GND	J2-11 (GND)
12	SDI	J2-12 (SDO_B)
13	GND	J2-13 (GND)
14	SCK	J2-14 (SCLK)



Connection Diagram

**Note 1:** For factory use only.

**Note 2:** Signal not used on SC-18XX Evaluation Board (EVB 3.0).

**Note 3:** Mating connector P/N AWP14-7241-T-R, Assmann Electronics provided with SC-USB-SPI.

#### J3- USB-B Interface (Mating Connector- USB-B male)

### Evaluation Kit Ordering Information

Part Number	Description
SC-USB-SPI	Adapter, SPI-USB Interface/Controller

## Revision History

REVISION NUMBER	REVISION DATE	DESCRIPTION	PAGES CHANGED
0	6/14		—

For pricing, delivery, and ordering information, please contact Maxim Direct at 1-888-629-4642, or visit Maxim Integrated's website at [www.maximintegrated.com](http://www.maximintegrated.com).

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